Energy, Mines and Resources Canada | Énergie, Mines et Ressources Canada

CANMET

Canada Centre for Mineral and Energy Technology | Centre canadien de la technologie des minéraux et de l'énergie

SENSITIVITY ANALYSIS OF PRODUCTION AND POWER CONSUMPTION TO VARIOUS CONSTRUCTIONAL AND OPERATING FACTORS USING A COMPUTER BASED SIMULATION CONVEYOR - BIN/HOPPER MODEL

J. K. SZYMANSKI
Surface Mining Laboratory

November 1986

This document is an interim report prepared for discussion and reporting purposes. It represents the opinion of the (CANMET)

Ce document est un rapport intérimaire préparé à des fins de discussion et d'information. Il représente l'opinion officielle de la Direction générale (CANMET)

92 pp

MINERAL AND ENERGY RESEARCH PROGRAM
COAL RESEARCH LABORATORIES
DIVISION REPORT M & ERP/CRL 86-122(TR)

MICROMEDIA

SENSITIVITY ANALYSIS OF PRODUCTION AND POWER CONSUMPTION TO VARIOUS CONSTRUCTIONAL AND OPERATING FACTORS USING A COMPUTER BASED SIMULATION CONVEYOR - BIN/HOPPER MODEL

by

J.K. Szymanski*

ABSTRACT

The following report analyzes the sensitivity of production and power consumption to various constructional and operating parameters using a controllable simulation conveyor - bin/hopper model. This interactive computer simulation model of conveyor systems in oil sands mining has been developed by the National Research Council and Canstar Oil Sands Ltd.

---

* Research Scientist, Surface Mining Laboratory, CANMET, Energy, Mines and Resources Canada, Devon, Alberta.

ANALYSE DE SENSIBILITÉ DE LA PRODUCTION ET LA CONSOMMATION D'ÉNERGIE DE DIFFÉRENTS FACTEURS DE CONSTRUCTION ET D'OPÉRATION EN UTILISANT LE MODÈLE INFORMATIQUE BIN/HOPPER DE SIMULATION DE CONVOYEUR

PAR

J.K. Szymanski*

RÉSUMÉ

Le présent rapport analyse la sensibilité de différents paramètres de construction et d'opération à la production et la consommation d'énergie en utilisant le modèle contrôlable bin/hopper de simulation de convoyeur. Ce modèle interactif de simulation de systèmes de convoyeur dans l'exploitation minière des sables pétrolifères a été développé par le Conseil National de Recherche et la compagnie Canstar Oil Ltd.

*Chercheur scientifique, Laboratoire d'exploitation minière en surface, CANMET, Energie, Mines et Ressources Canada, Devon, Alberta.

CONTENTS

	Page
ABSTRACT	i
RESUME	iii
INTRODUCTION	1
OPERATION OF CONVEYOR - BIN/HOPPER MODEL USING DEFAULT DATA	1
Experiment 1	1
Experiment 2	2
Experiment 3	2
Experiment 4	2
Experiment 5	2
Experiment 6	3
CONCLUSIONS	12
RECOMMENDATIONS	12
REFERENCES	13
APPENDIX A	14

FIGURES

No.		
1.	Configuration of conveyor - bin/hopper model	4
2.	Conveyor speed vs. power	5
3.	Conveyor angle vs. power	6
4.	Conveyor angle vs. power	7
5.	Feed rate vs. production	8
6.	Feed rate vs. power	9
7.	Idler spacing vs. power	10
8.	Belt width vs. power	11

INTRODUCTION

The interactive simulation model of conveyor systems was jointly developed by NRC and Project 80 on the mining operations and equipment used in tar-sands mining (1). The simulator was working, but not fully validated nor ever actually used, at the time the CANSTAR project was cancelled.

CANMET issued contract 23440-5-9249/01-SQ in order to assess the applicability of the simulation model to general industry needs. The final report for the above project was completed by Monenco Consultants Limited on September 19, 1986 (2).

This report describes further applications experiments. The object of these experiments was a sensitivity analysis of total production and power consumption to various constructional and operating factors of the modeled conveyor system.

OPERATION OF CONVEYOR - BIN/HOPPER MODEL USING DEFAULT DATA

The test case represents the situation shown in Fig. 1 (1).

A series of runs were made on the conveyor - bin models. The models were run to simulate a single eight (8) hour shift. The random number seed was set at an odd integer (7) in order to made each run identical. The screen update factor was set at 3600 in order to update the screen display once an hour. The list of experiments run are itemized below, and the output reports are shown in Appendix A.

Experiment 1:

a) The belt velocity in the test data (file CONVEY.DAT) was changed from 4.06 m/s to 3.00, 2.00, and 1.00 m/s. Simulations were done over a period of one shift.

RESULT: Power consumption and production remained constant. Power consumption was plotted. (Fig. 2).

Experiment 2:

a) The angle of inclination of conveyor belt 1 was raised and lowered from 10 degrees below the horizontal to 10 degrees above the horizontal in increments of 2 degrees (file CONVEY.DAT). The length of the conveyor belt remained constant at 3000 m.

RESULT: As the conveyor angle decreased, power consumption decreased. Power consumption as a function of angle was plotted. (Figs. 3 and 4).

Experiment 3:

a) The feed rate was changed from 300 to 900 BCM/Hr in increments of 100 BCM/Hr (file FEED.DAT). The feed rate was held constant by setting the maximum feed rate equal to the minimum.

RESULT: As the feed rate increased production increased linearly and power consumption decreased appearing to converge to a minimum. (Figs. 5 and 6).

Experiment 4:

a) The idler spacing was changed from 1.2 m to 2.2 m in increments of 0.2 m (file CONVEY.DAT).

RESULT: As idler spacing increases the power consumption increased. (Fig. 7).

Experiment 5:

a) The belt width was changed from 54 in. to 78 in. in increments of 6 in. (file CONVEY.DAT).

RESULT: As the belt width increased the power consumption decreased. (Fig. 8).

Experiment 6:

a) The feed was changed to a constant 650 BCM/Hr. The mean breakdown statistics for the feeding equipment were changed to 2000 min., standard deviation of 0.1 and a range of $\pm$ 1 min. for mechanical breakdown. The repair time was changed to 1 min., standard deviation of 0.1 and a range of $\pm$ 0.5 min (file FEED.DAT). The statistics for breakdowns were changed drastically for the conveyor belts (file CNSTAT. DAT). Simulations were run for ten shifts.

RESULT: The results from each run were identical.

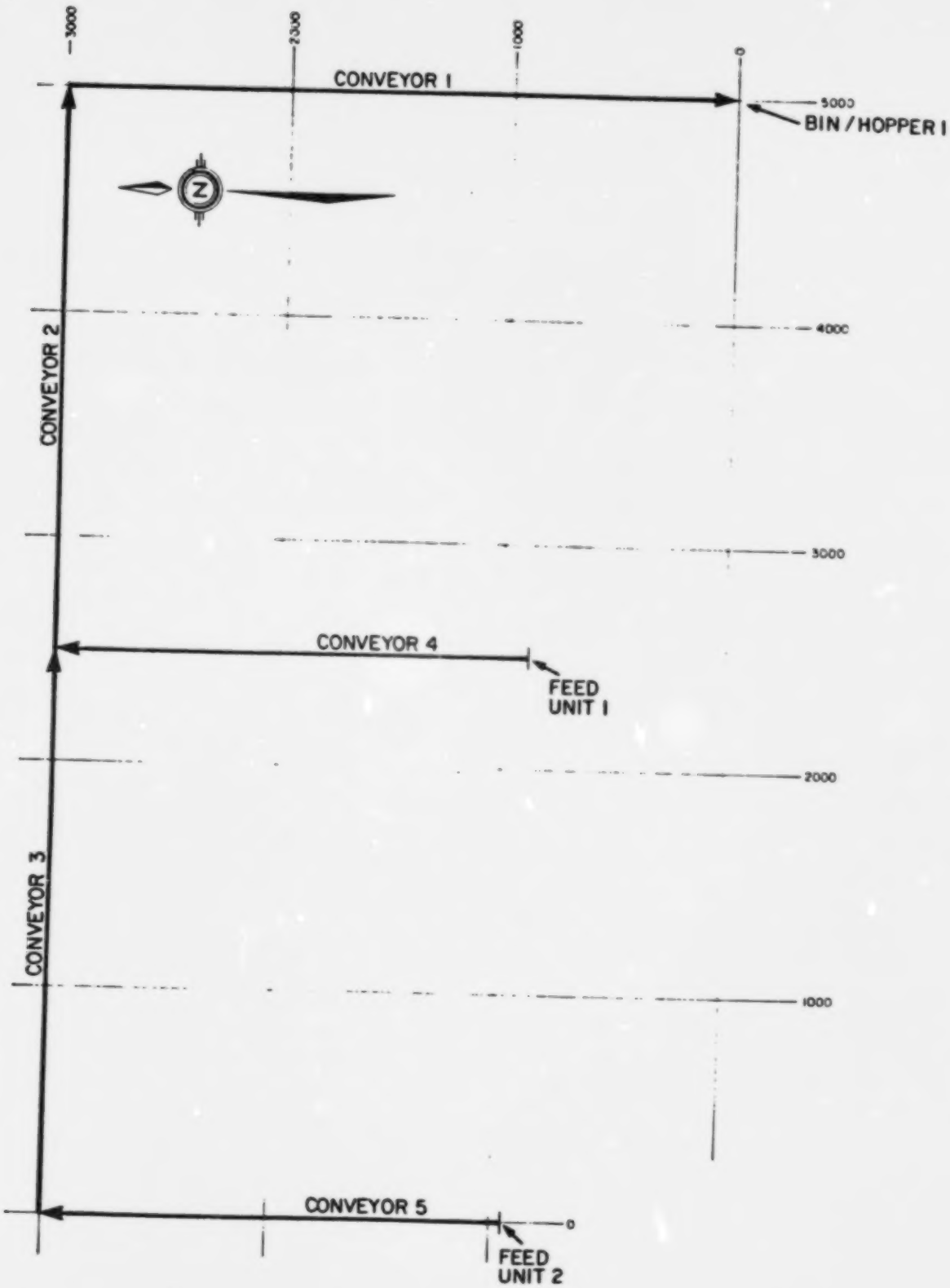

Fig. 1 - Configuration of conveyor - bin/hopper model (2).

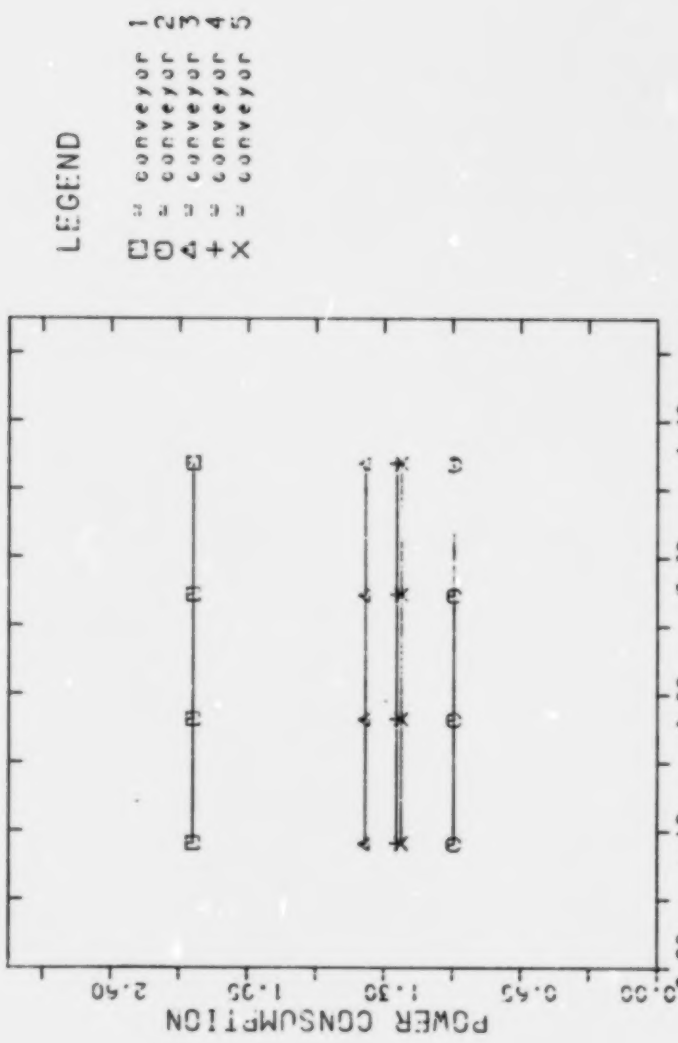

Fig 2. Conveyor speed vs. power

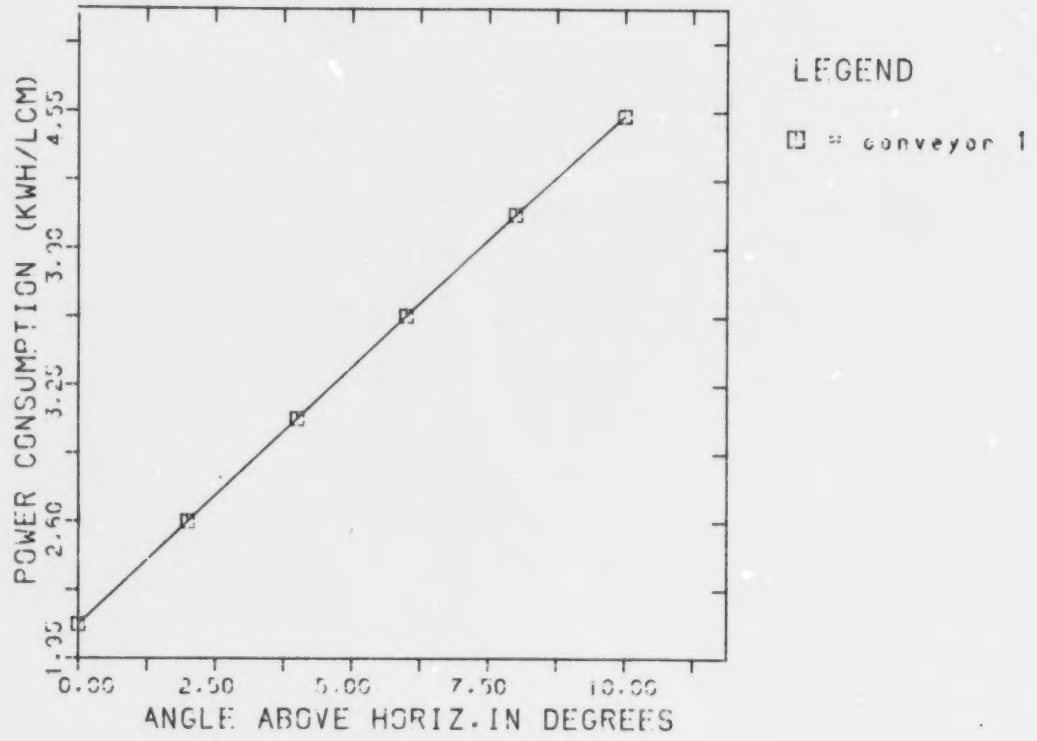

Fig .3 Conveyor angle vs power

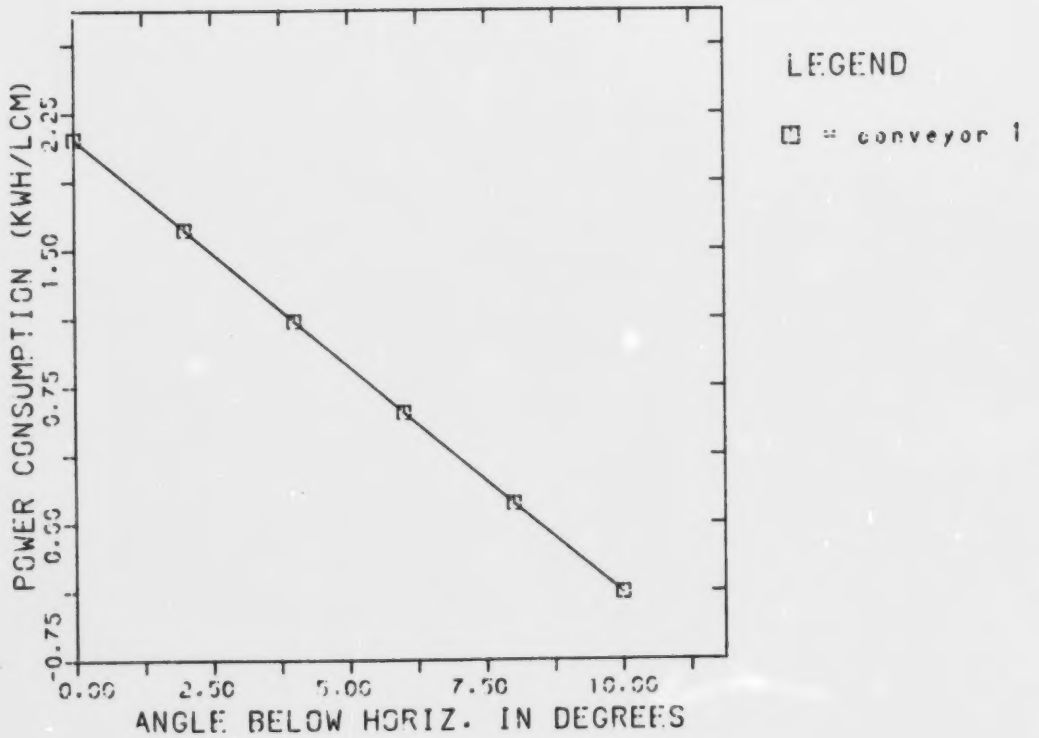

Fig .4 Conveyor angle vs. power

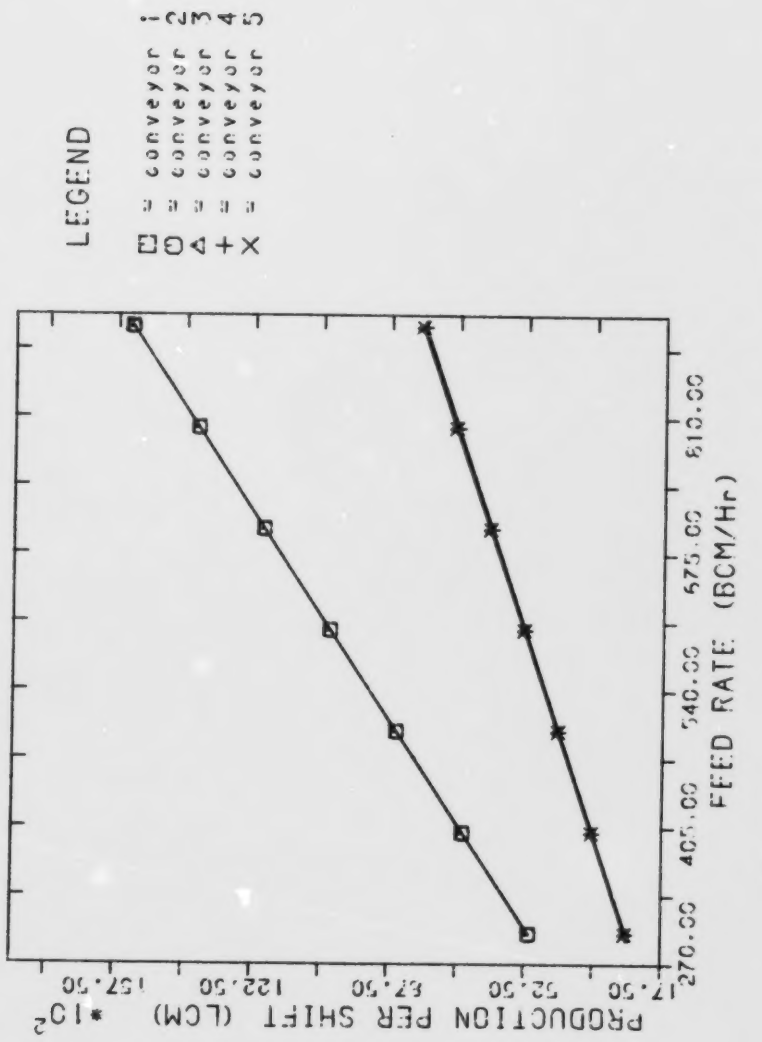

Fig 5 . Feed rate vs. production

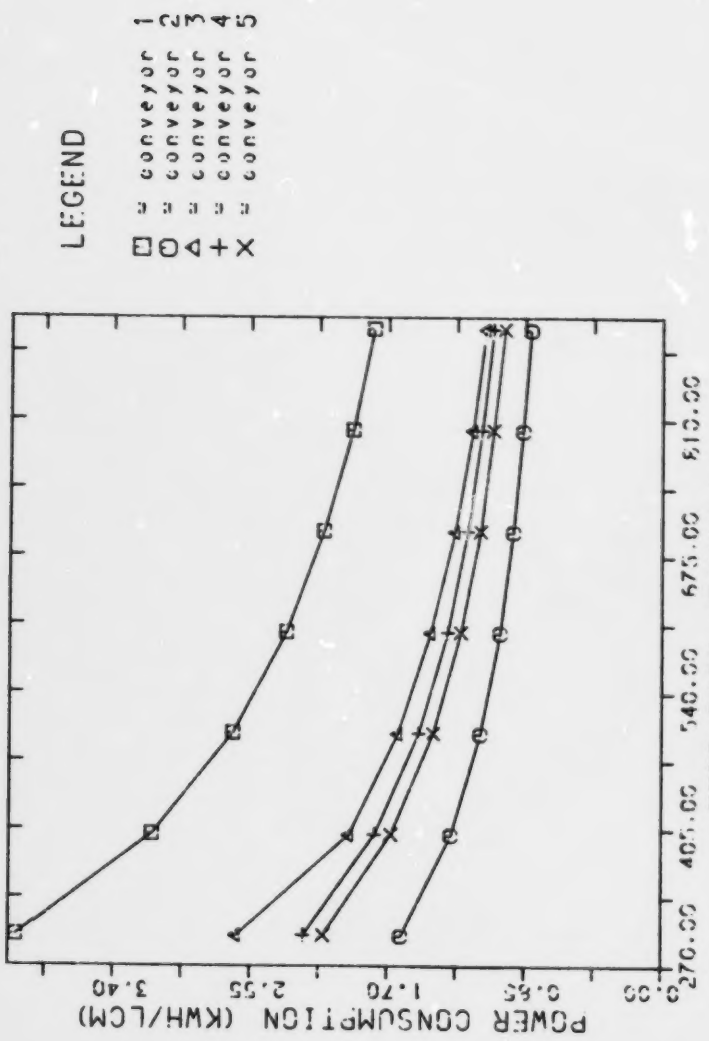

Fig .6 Feed rate vs. power

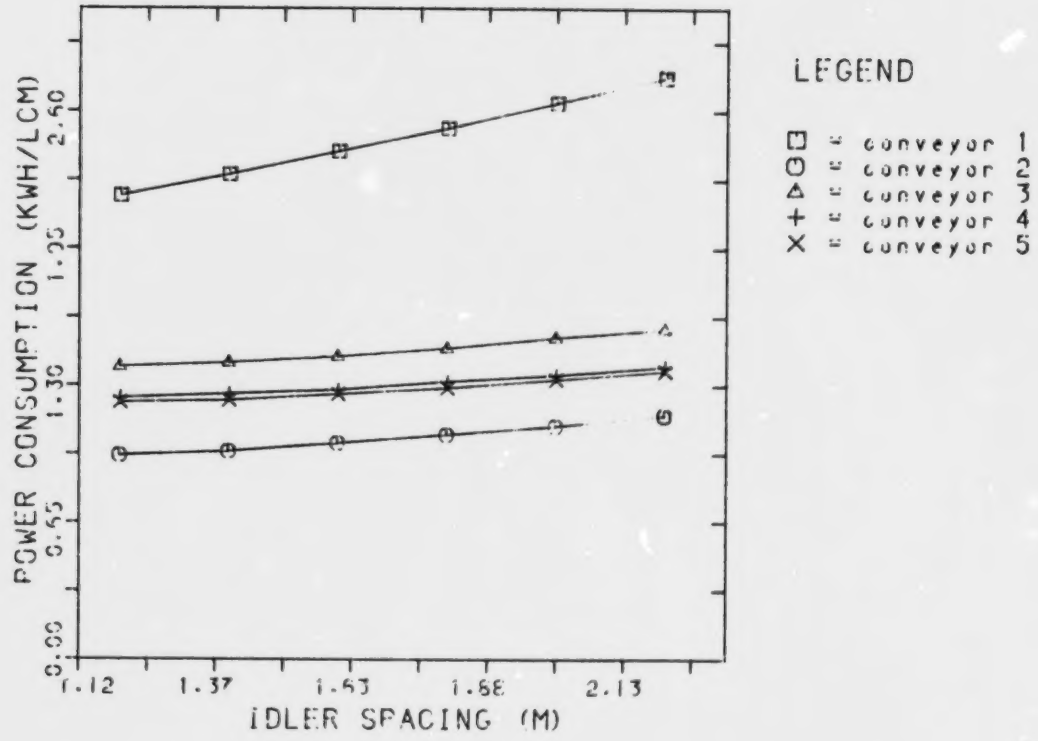

Fig .7 Idler spacing vs power

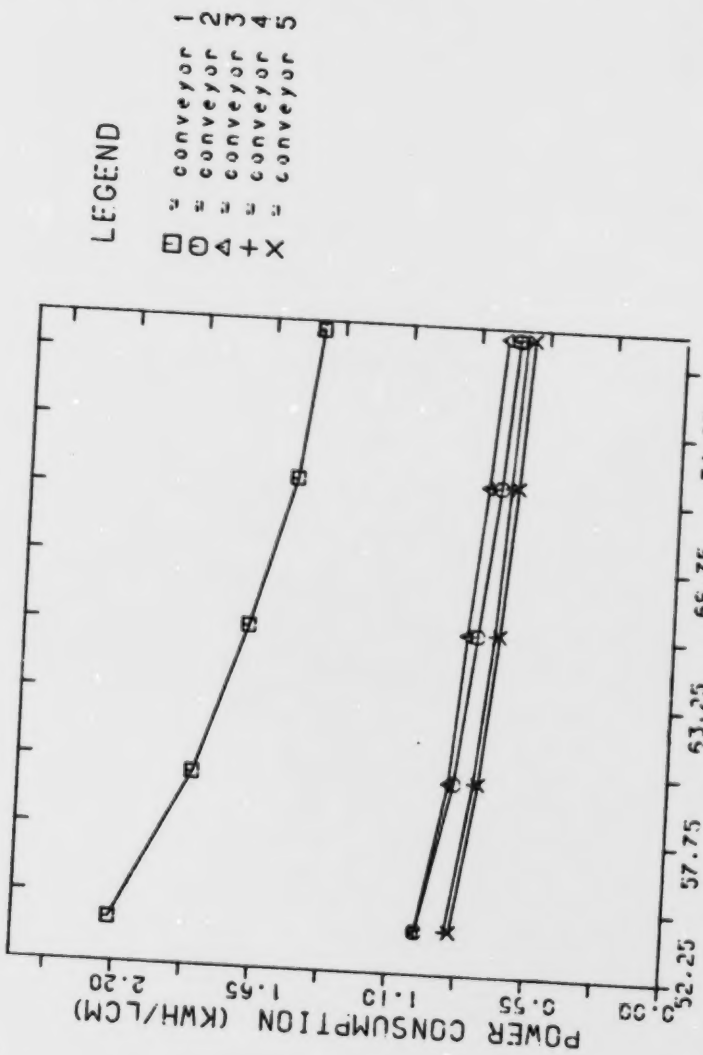

Fig .8 Belt width vs power

CONCLUSIONS

1. The detail in the output report, and the level of detail in the documentation was adequate to determine that the program behaves in agreement with the documentation, and that the results are reasonable.

2. The model cannot handle a tripper/spreader on the spoil pile, or independantly manipulate a beltwagon.

3. Mathematical formulas used to compute energy consumption of conveyors should also take into consideration belt type (applied formulas are valid only for high-capacity conveyors with steel cord belts).

4. The approach that the belt speed is a calculated quantity is very unrealistic. Since the model will most likely be used at operations where belt width and speed are fixed for a particular installation it would be preferable that belt width, belt speed and unit capacity be input quantities.

RECOMMENDATIONS

Develop a set of written subprograms to permit a modeler of conveyor model to make inserts into the network model, namely:

- capability to handle tripper/spreader on spoil pile,
- capability to independently manipulate the beltwagon,
- capability to incorporate a high-angle conveyor,
- capability to interchange conveyor model with other models,
- capability to short range planning and scheduling with more detail on the types of possible breakdowns and the times to repair them and the times between failures.

REFERENCES

1. Chan, A.W. "An interactive simulation model of conveyor systems in tar sands mining"; Systems model reports LTR-CS-227, 1982; National Research Council Canada.
2. Monenco Consultants Limited. "The assessment, evaluation and validation of a computer based simulation model"; DSS Report 8291-8/3978, 1986.

APPENDIX A

OPERATION OF CONVEYOR - BIN/HOPPER MODEL - PRINTOUT OF EXPERIMENTS RUN USING DEFAULT DATA

SET OF RUNS WITH STATISTICAL CHANGES TO CNSTAT FILE

RUN 1 FOR 10 SHIFTS

```
480.,480.,240.,2880.,          /TIME TO MECH.BREAK
30.,30.,15.,480.,              /TIME TO REPAIR
1920.,1920.,960.,11520.,       /TIME TO ELEC.BREAK
120.,120.,60.,1920.,           /TIME TO REPAIR
960.,960.,60.,2880.,           /TIME TO TRIP
5.,1.5,2.,15.,                 /TIME TO RESET TRIP
```

FEEDING EQUIPMENT REPORT (TOTAL) AT 16: 0

Unit No.	Current Feed- Rate(BCM/Hr)	Grade(%)	Cumulative Production (BCM) Hour	Shift	Day	Simul.
1	650	8.0	0	0	0	3495
2	650	8.0	0	0	0	4804

Unit No.	Current Status Code	Cumulative Status Time in min.(%) 1	2	3	4	5
1	1	4017(84)	784(16)	0(0)	0(0)	0(0)
2	1	4356(91)	445(9)	0(0)	0(0)	0(0)

Status Codes:
1 Operating
2 Self-delayed
3 Delayed due to Receiving Equipment
4 Idle
5 Broken down

CONVEYOR NETWORK REPORT (TOTAL) AT TIME 16: 0

SECT NO.	STAT CODE	MATL CODE	PR.RAT LCM/HR	CYCLE(NO DEL) MIN (MIN)	WORK MIN	IDLE MIN	DOWN MIN	ENERGY CONS KWH/LCM	PROD LC
1	2	1	1756	30.(30.)	4739	0	0	2.05	1211
2	2	1	878	25.(25.)	4739	0	0	0.92	1217
3	2	1	878	29.(29.)	4738	0	0	1.28	624
4	2	1	878	25.(25.)	4737	0	0	1.24	585
5	2	1	878	24.(24.)	4738	0	0	1.12	626

CONVEYOR UTILIZATION REPORT AT TIME 16: 0

RUNNING:

SECTION NO.	LOADED MIN	LOADED %	EMPTY MIN	EMPTY %
1	4715	99.5	24	0.5
2	4725	99.7	14	0.3
3	4637	97.9	101	2.1
4	4400	92.9	337	7.1
5	4621	97.5	116	2.5

DELAYS:

SECTION NO.	WAITING MIN	WAITING %	RELOCATION MIN	RELOCATION %	ROLLERS MIN	ROLLERS %	TRIPPING MIN	TRIPPING %	SWITCHOVER MIN	SWITCHOVER %	REVERSE MIN	REVERSE %
1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0

BELT OVERLOADS:

SECTION NO.	FREQUENCY	CUMUL.EXCESS LCM/HR
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0

CONVEYOR PERFORMANCE INDICATORS

SECTION NO.	MECH.AVAIL %	DEMAND %	UTILIZ %	OP.EFF %
1	100.00	100.00	98.75	100.00
2	100.00	100.00	98.75	100.00
3	100.00	100.00	98.72	100.00
4	100.00	100.00	98.70	100.00
5	100.00	100.00	98.71	100.00
AVE	100.00	100.00	98.73	100.00

RUN 2 FOR 10 SHIFTS

```
240.,240.,120.,1440.,          /TIME TO MECH.BREAK
30.,30.,15.,480.,              /TIME TO REPAIR
960.,960.,480.,5760.,          /TIME TO ELEC.BREAK
120.,120.,60.,1920.,           /TIME TO REPAIR
480.,480.,30.,1440.,           /TIME TO TRIP
5.,1.5,2.,15.,                 /TIME TO RESET TRIP
```

FEEDING EQUIPMENT REPORT (TOTAL) AT 16: 0

Unit No.	Current Feed- Rate(BCM/Hr)	Grade(%)	Cumulative Production (BCM) Hour	Shift	Day	Simul.
1	650	8.0	0	0	0	3495
2	650	8.0	0	0	0	4804

Unit No.	Current Status Code	Cumulative Status Time in min.(%) 1	2	3	4	5
1	1	4017(84)	784(16)	0(0)	0(0)	0(0)
2	1	4356(91)	445(9)	0(0)	0(0)	0(0)

Status Codes:
1 Operating
2 Self-delayed
3 Delayed due to Receiving Equipment
4 Idle
5 Broken down

CONVEYOR NETWORK REPORT (TOTAL) AT TIME 16: 0

SECT NO.	STAT CODE	MATL CODE	PR.RAT LCM/HR	CYCLE(NO DEL) MIN (MIN)	WORK MIN	IDLE MIN	DOWN MIN	ENERGY CONS KWH/LCM	PROD LC
1	2	1	1756	30.(30.)	4739	0	0	2.05	1211
2	2	1	878	25.(25.)	4739	0	0	0.92	1217
3	2	1	878	29.(29.)	4738	0	0	1.28	624
4	2	1	878	25.(25.)	4737	0	0	1.24	585
5	2	1	878	24.(24.)	4738	0	0	1.12	626

CONVEYOR UTILIZATION REPORT AT TIME 16: 0

RUNNING:

SECTION NO.	LOADED MIN	LOADED %	EMPTY MIN	EMPTY %
1	4715	99.5	24	0.5
2	4725	99.7	14	0.3
3	4637	97.9	101	2.1
4	4400	92.9	337	7.1
5	4621	97.5	116	2.5

DELAYS:

SECTION NO.	WAITING MIN	WAITING %	RELOCATION MIN	RELOCATION %	ROLLERS MIN	ROLLERS %	TRIPPING MIN	TRIPPING %	SWITCHOVER MIN	SWITCHOVER %	REVERSE MIN	REVERSE %
1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0

BELT OVERLOADS:

SECTION NO.	FREQUENCY	CUMUL.EXCESS LCM/HR
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0

CONVEYOR PERFORMANCE INDICATORS

SECTION NO.	MECH.AVAIL %	DEMAND %	UTILIZ %	OP.EFF %
1	100.00	100.00	98.75	100.00
2	100.00	100.00	98.75	100.00
3	100.00	100.00	98.72	100.00
4	100.00	100.00	98.70	100.00
5	100.00	100.00	98.71	100.00
AVE	100.00	100.00	98.73	100.00

RUN 3 FOR 10 SHIFTS

```
120.,120.,60.,720.,          /TIME TO MECH.BREAK
30.,30.,15.,480.,            /TIME TO REPAIR
480.,480.,240.,2880.,        /TIME TO ELEC.BREAK
120.,120.,60.,1920.,         /TIME TO REPAIR
240.,240.,15.,720.,          /TIME TO TRIP
5.,1.5,2.,15.,               /TIME TO RESET TRIP
```

FEEDING EQUIPMENT REPORT (TOTAL) AT 16: 0

Unit No.	Current Feed- Rate(BCM/Hr)	Current Feed- Grade(%)	Cumulative Production (BCM) Hour	Shift	Day	Simul.
1	650	8.0	0	0	0	3495
2	650	8.0	0	0	0	4804

Unit No.	Current Status Code	Cumulative Status Time in min.(%) 1	2	3	4	5
1	1	4017(84)	784(16)	0(0)	0(0)	0(0)
2	1	4356(91)	445(9)	0(0)	0(0)	0(0)

Status Codes:
1 Operating
2 Self-delayed
3 Delayed due to Receiving Equipment
4 Idle
5 Broken down

CONVEYOR NETWORK REPORT (TOTAL) AT TIME 16: 0

SECT NO.	STAT CODE	MATL CODE	PR.RAT LCM/HR	CYCLE(NO DEL) MIN (MIN)	WORK MIN	IDLE MIN	DOWN MIN	ENERGY CONS KWH/LCM	PROD LC
1	2	1	1756	30.(30.)	4739	0	0	2.05	1211
2	2	1	878	25.(25.)	4739	0	0	0.92	1217
3	2	1	878	29.(29.)	4738	0	0	1.28	624
4	2	1	878	25.(25.)	4737	0	0	1.24	5[illegible]
5	2	1	878	24.(24.)	4738	0	0	1.12	626

CONVEYOR UTILIZATION REPORT AT TIME 16: 0

RUNNING:

SECTION NO.	LOADED MIN	LOADED %	EMPTY MIN	EMPTY %
1	4715	99.5	24	0.5
2	4725	99.7	14	0.3
3	4637	97.9	101	2.1
4	4400	92.9	337	7.1
5	4621	97.5	116	2.5

DELAYS:

SECTION NO.	WAITING MIN	WAITING %	RELOCATION MIN	RELOCATION %	ROLLERS MIN	ROLLERS %	TRIPPING MIN	TRIPPING %	SWITCHOVER MIN	SWITCHOVER %	REVERSE MIN	REVERSE %
1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0

BELT OVERLOADS:

SECTION NO.	FREQUENCY	CUMUL.EXCESS LCM/HR
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0

CONVEYOR PERFORMANCE INDICATORS

SECTION NO.	MECH.AVAIL %	DEMAND %	UTILIZ %	OP.EFF %
1	100.00	100.00	98.75	100.00
2	100.00	100.00	98.75	100.00
3	100.00	100.00	98.72	100.00
4	100.00	100.00	98.70	100.00
5	100.00	100.00	98.71	100.00
AVE	100.00	100.00	98.73	100.00

ANGLE FOR CONVEYOR 1 = 0.0 ABOVE HORIZONTAL

FEEDING EQUIPMENT REPORT (TOTAL) AT 16: 0

Unit No.	Current Feed- Rate(BCM/Hr)	Grade(%)	Cumulative Production (BCM) Hour	Shift	Day	Simul.
1	638	7.0	0	0	0	4434
2	663	7.8	0	0	0	4363

Unit No.	Current Status Code	Cumulative Status Time in min.(%) 1	2	3	4	5
1	1	398(83)	82(17)	0(0)	0(0)	0(0)
2	1	416(87)	64(13)	0(0)	0(0)	0(0)

Status Codes:
1 Operating
2 Self-delayed
3 Delayed due to Receiving Equipment
4 Idle
5 Broken down

CONVEYOR NETWORK REPORT (TOTAL) AT TIME 16: 0

SECT NO.	STAT CODE	MATL CODE	PR.RAT LCM/HR	CYCLE(NO DEL) MIN (MIN)	WORK MIN	IDLE MIN	DOWN MIN	ENERGY CONS KWH/LCM	PRODUC. LCM
1	2	1	907	30.(30.)	419	0	0	2.11	11074
2	2	1	907	25.(25.)	419	0	0	0.97	11073
3	2	1	0	29.(29.)	419	0	0	1.39	5548
4	2	1	0	25.(25.)	471	0	0	1.24	5866
5	2	1	895	24.(24.)	456	0	0	1.22	5548

CONVEYOR UTILIZATION REPORT AT TIME 16: 0

RUNNING:

SECTION NO.	LOADED MIN	%	EMPTY MIN	%
1	395	94.1	24	5.9
2	407	97.1	12	2.9
3	384	91.6	35	8.4
4	422	89.5	49	10.5
5	430	94.3	26	5.7

DELAYS:

SECTION NO.	WAITING MIN	WAITING %	RELOCATION MIN	RELOCATION %	ROLLERS MIN	ROLLERS %	TRIPPING MIN	TRIPPING %	SWITCHOVER MIN	SWITCHOVER %	REVERSE MIN	REVERSE %
1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0

BELT OVERLOADS:

SECTION NO.	FREQUENCY	CUMUL.EXCESS LCM/HR
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0

CONVEYOR PERFORMANCE INDICATORS

SECTION NO.	MECH.AVAIL %	DEMAND %	UTILIZ %	OP.EFF %
1	100.00	100.00	87.48	100.00
2	100.00	100.00	87.48	100.00
3	100.00	100.00	87.46	100.00
4	100.00	100.00	98.27	100.00
5	100.00	100.00	95.17	100.00
AVE	100.00	100.00	91.17	100.00

ANGLE FOR CONVEYOR 1 = 2.0 ABOVE HORIZONTAL

FEEDING EQUIPMENT REPORT (TOTAL) AT 16: 0

Unit No.	Current Feed- Rate(BCM/Hr)	Grade(%)	Cumulative Production (BCM) Hour	Shift	Day	Simul.
1	638	7.0	0	0	0	4434
2	663	7.8	0	0	0	4363

Unit No.	Current Status Code	Cumulative Status Time in min.(%) 1	2	3	4	5
1	1	398(83)	82(17)	0(0)	0(0)	0(0)
2	1	416(87)	64(13)	0(0)	0(0)	0(0)

Status Codes:
1 Operating
2 Self-delayed
3 Delayed due to Receiving Equipment
4 Idle
5 Broken down

CONVEYOR NETWORK REPORT (TOTAL) AT TIME 16: 0

SECT NO.	STAT CODE	MATL CODE	PR.RAT LCM/HR	CYCLE(NO DEL) MIN (MIN)	WORK MIN	IDLE MIN	DOWN MIN	ENERGY CONS KWH/LCM	PRODUC. LCM
1	2	1	907	30.(30.)	419	0	0	2.60	11074
2	2	1	907	25.(25.)	419	0	0	0.97	11073
3	2	1	0	29.(29.)	419	0	0	1.39	5548
4	2	1	0	25.(25.)	471	0	0	1.24	5866
5	2	1	895	24.(24.)	456	0	0	1.22	5548

CONVEYOR UTILIZATION REPORT AT TIME 16: 0

RUNNING:

SECTION NO.	LOADED MIN	%	EMPTY MIN	%
1	395	94.1	24	5.9
2	407	97.1	12	2.9
3	384	91.6	35	8.4
4	422	89.5	49	10.5
5	430	94.3	26	5.7

DELAYS:

SECTION NO.	WAITING MIN	WAITING %	RELOCATION MIN	RELOCATION %	ROLLERS MIN	ROLLERS %	TRIPPING MIN	TRIPPING %	SWITCHOVER MIN	SWITCHOVER %	REVERSE MIN	REVERSE %
1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0

BELT OVERLOADS:

SECTION NO.	FREQUENCY	CUMUL.EXCESS LCM/HR
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0

CONVEYOR PERFORMANCE INDICATORS

SECTION NO.	MECH.AVAIL %	DEMAND %	UTILIZ %	OP.EFF %
1	100.00	100.00	87.48	100.00
2	100.00	100.00	87.48	100.00
3	100.00	100.00	87.46	100.00
4	100.00	100.00	98.27	100.00
5	100.00	100.00	95.17	100.00
AVE	100.00	100.00	91.17	100.00

ANGLE FOR CONVEYOR 1 = 4.0 ABOVE HORIZONTAL

FEEDING EQUIPMENT REPORT (TOTAL) AT 16: 0

Unit No.	Current Feed- Rate(BCM/Hr)	Grade(%)	Cumulative Production (BCM) Hour	Shift	Day	Simul.
1	638	7.0	0	0	0	4434
2	663	7.8	0	0	0	4363

Unit No.	Current Status Code	Cumulative Status Time in min.(%) 1	2	3	4	5
1	1	398(83)	82(17)	0(0)	0(0)	0(0)
2	1	416(87)	64(13)	0(0)	0(0)	0(0)

Status Codes:
1 Operating
2 Self-delayed
3 Delayed due to Receiving Equipment
4 Idle
5 Broken down

CONVEYOR NETWORK REPORT (TOTAL) AT TIME 16: 0

SECT NO.	STAT CODE	MATL CODE	PR.RAT LCM/HR	CYCLE(NO DEL) MIN (MIN)	WORK MIN	IDLE MIN	DOWN MIN	ENERGY CONS KWH/LCM	PRODUC. LCM
1	2	1	907	30.(30.)	419	0	0	3.09	11074
2	2	1	907	25.(25.)	419	0	0	0.97	11073
3	2	1	0	29.(29.)	419	0	0	1.39	5548
4	2	1	0	25.(25.)	471	0	0	1.24	5866
5	2	1	895	24.(24.)	456	0	0	1.22	5548

CONVEYOR UTILIZATION REPORT AT TIME 16: 0

RUNNING:

SECTION NO.	LOADED MIN	%	EMPTY MIN	%
1	395	94.1	24	5.9
2	407	97.1	12	2.9
3	384	91.6	35	8.4
4	422	89.5	49	10.5
5	430	94.3	26	5.7

DELAYS:

SECTION NO.	WAITING MIN	WAITING %	RELOCATION MIN	RELOCATION %	ROLLERS MIN	ROLLERS %	TRIPPING MIN	TRIPPING %	SWITCHOVER MIN	SWITCHOVER %	REVERSE MIN	REVERSE %
1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0

BELT OVERLOADS:

SECTION NO.	FREQUENCY	CUMUL.EXCESS LCM/HR
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0

CONVEYOR PERFORMANCE INDICATORS

SECTION NO.	MECH.AVAIL %	DEMAND %	UTILIZ %	OP.EFF %
1	100.00	100.00	87.48	100.00
2	100.00	100.00	87.48	100.00
3	100.00	100.00	87.46	100.00
4	100.00	100.00	98.27	100.00
5	100.00	100.00	95.17	100.00
AVE	100.00	100.00	91.17	100.00

ANGLE FOR CONVEYOR 1 = 6.0 ABOVE HORIZONTAL

FEEDING EQUIPMENT REPORT (TOTAL) AT 16: 0

Unit No.	Current Feed- Rate(BCM/Hr)	Grade(%)	Cumulative Production (BCM) Hour	Shift	Day	Simul.
1	638	7.0	0	0	0	4434
2	663	7.8	0	0	0	4363

Unit No.	Current Status Code	Cumulative Status Time in min.(%) 1	2	3	4	5
1	1	398(83)	82(17)	0(0)	0(0)	0(0)
2	1	416(87)	64(13)	0(0)	0(0)	0(0)

Status Codes:
1 Operating
2 Self-delayed
3 Delayed due to Receiving Equipment
4 Idle
5 Broken down

CONVEYOR NETWORK REPORT (TOTAL) AT TIME 16: 0

SECT NO.	STAT CODE	MATL CODE	PR.RAT LCM/HR	CYCLE(NO DEL) MIN (MIN)	WORK MIN	IDLE MIN	DOWN MIN	ENERGY CONS KWH/LCM	PRODUC. LCM
1	2	1	907	29.(29.)	419	0	0	3.58	11072
2	2	1	907	25.(25.)	419	0	0	0.97	11073
3	2	1	0	29.(29.)	419	0	0	1.39	5548
4	2	1	0	25.(25.)	471	0	0	1.24	5866
5	2	1	895	24.(24.)	456	0	0	1.22	5548

CONVEYOR UTILIZATION REPORT AT TIME 16: 0

RUNNING:

SECTION NO.	LOADED MIN	%	EMPTY MIN	%
1	395	94.1	24	5.9
2	407	97.1	12	2.9
3	384	91.6	35	8.4
4	422	89.5	49	10.5
5	430	94.3	26	5.7

DELAYS:

SECTION NO.	WAITING MIN	WAITING %	RELOCATION MIN	RELOCATION %	ROLLERS MIN	ROLLERS %	TRIPPING MIN	TRIPPING %	SWITCHOVER MIN	SWITCHOVER %	REVERSE MIN	REVERSE %
1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0

BELT OVERLOADS:

SECTION NO.	FREQUENCY	CUMUL.EXCESS LCM/HR
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0

CONVEYOR PERFORMANCE INDICATORS

SECTION NO.	MECH.AVAIL %	DEMAND %	UTILIZ %	OP.EFF %
1	100.00	100.00	87.48	100.00
2	100.00	100.00	87.48	100.00
3	100.00	100.00	87.46	100.00
4	100.00	100.00	98.27	100.00
5	100.00	100.00	95.17	100.00
AVE	100.00	100.00	91.17	100.00

ANGLE FOR CONVEYOR 1 = 8.0 ABOVE HORIZONTAL

FEEDING EQUIPMENT REPORT (TOTAL) AT 16: 0

Unit No.	Current Feed- Rate(BCM/Hr)	Grade(%)	Cumulative Production (BCM) Hour	Shift	Day	Simul.
1	638	7.0	0	0	0	4434
2	663	7.8	0	0	0	4363

Unit No.	Current Status Code	Cumulative Status Time in min.(%) 1	2	3	4	5
1	1	398(83)	82(17)	0(0)	0(0)	0(0)
2	1	416(87)	64(13)	0(0)	0(0)	0(0)

Status Codes:
1 Operating
2 Self-delayed
3 Delayed due to Receiving Equipment
4 Idle
5 Broken down

CONVEYOR NETWORK REPORT (TOTAL) AT TIME 16: 0

SECT NO.	STAT CODE	MATL CODE	PR.RAT LCM/HR	CYCLE(NO DEL) MIN (MIN)	WORK MIN	IDLE MIN	DOWN MIN	ENERGY CONS KWH/LCM	PRODUC. LCM
1	2	1	907	29.(29.)	419	0	0	4.06	11074
2	2	1	907	25.(25.)	419	0	0	0.97	11073
3	2	1	0	29.(29.)	419	0	0	1.39	5548
4	2	1	0	25.(25.)	471	0	0	1.24	5866
5	2	1	895	24.(24.)	456	0	0	1.22	5548

CONVEYOR UTILIZATION REPORT AT TIME 16: 0

RUNNING:

SECTION NO.	LOADED MIN	%	EMPTY MIN	%
1	395	94.1	24	5.9
2	407	97.1	12	2.9
3	384	91.6	35	8.4
4	422	89.5	49	10.5
5	430	94.3	26	5.7

DELAYS:

SECTION NO.	WAITING MIN	WAITING %	RELOCATION MIN	RELOCATION %	ROLLERS MIN	ROLLERS %	TRIPPING MIN	TRIPPING %	SWITCHOVER MIN	SWITCHOVER %	REVERSE MIN	REVERSE %
1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0

BELT OVERLOADS:

SECTION NO.	FREQUENCY	CUMUL.EXCESS LCM/HR
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0

CONVEYOR PERFORMANCE INDICATORS

SECTION NO.	MECH.AVAIL %	DEMAND %	UTILIZ %	OP.EFF %
1	100.00	100.00	87.48	100.00
2	100.00	100.00	87.48	100.00
3	100.00	100.00	87.46	100.00
4	100.00	100.00	98.27	100.00
5	100.00	100.00	95.17	100.00
AVE	100.00	100.00	91.17	100.00

ANGLE FOR CONVEYOR 1 = 10.0 ABOVE HORIZONTAL

FEEDING EQUIPMENT REPORT (TOTAL) AT 16: 0

Unit No.	Current Feed- Rate(BCM/Hr)	Grade(%)	Cumulative Production (BCM) Hour	Shift	Day	Simul.
1	638	7.0	0	0	0	4434
2	663	7.8	0	0	0	4363

Unit No.	Current Status Code	Cumulative Status Time in min.(%) 1	2	3	4	5
1	1	398(83)	82(17)	0(0)	0(0)	0(0)
2	1	416(87)	64(13)	0(0)	0(0)	0(0)

Status Codes:
1 Operating
2 Self-delayed
3 Delayed due to Receiving Equipment
4 Idle
5 Broken down

CONVEYOR NETWORK REPORT (TOTAL) AT TIME 16: 0

SECT NO.	STAT CODE	MATL CODE	PR.RAT LCM/HR	CYCLE(NO DEL) MIN (MIN)	WORK MIN	IDLE MIN	DOWN MIN	ENERGY CONS KWH/LCM	PRODUC. LCM
1	2	1	907	29.(29.)	419	0	0	4.53	11072
2	2	1	907	25.(25.)	419	0	0	0.97	11073
3	2	1	0	29.(29.)	419	0	0	1.39	5548
4	2	1	0	25.(25.)	471	0	0	1.24	5866
5	2	1	895	24.(24.)	456	0	0	1.22	5548

CONVEYOR UTILIZATION REPORT AT TIME 16: 0

RUNNING:

SECTION NO.	LOADED MIN	%	EMPTY MIN	%
1	395	94.1	24	5.9
2	407	97.1	12	2.9
3	384	91.6	35	8.4
4	422	89.5	49	10.5
5	430	94.3	26	5.7

DELAYS:

SECTION NO.	WAITING MIN	WAITING %	RELOCATION MIN	RELOCATION %	ROLLERS MIN	ROLLERS %	TRIPPING MIN	TRIPPING %	SWITCHOVER MIN	SWITCHOVER %	REVERSE MIN	REVERSE %
1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0

BELT OVERLOADS:

SECTION NO.	FREQUENCY	CUMUL.EXCESS LCM/HR
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0

CONVEYOR PERFORMANCE INDICATORS

SECTION NO.	MECH.AVAIL %	DEMAND %	UTILIZ %	OP.EFF %
1	100.00	100.00	87.48	100.00
2	100.00	100.00	87.48	100.00
3	100.00	100.00	87.46	100.00
4	100.00	100.00	98.27	100.00
5	100.00	100.00	95.17	100.00
AVE	100.00	100.00	91.17	100.00

MAXIMUM VELOCITY = 1.0 m/s

FEEDING EQUIPMENT REPORT (TOTAL) AT 16: 0

Unit No.	Current Feed- Rate(BCM/Hr)	Grade(%)	Cumulative Production (BCM) Hour	Shift	Day	Simul.
1	638	7.0	0	0	0	4434
2	663	7.8	0	0	0	4363

Unit No.	Current Status Code	Cumulative Status Time in min.(%) 1	2	3	4	5
1	1	398(83)	82(17)	0(0)	0(0)	0(0)
2	1	416(87)	64(13)	0(0)	0(0)	0(0)

Status Codes:
1 Operating
2 Self-delayed
3 Delayed due to Receiving Equipment
4 Idle
5 Broken down

CONVEYOR NETWORK REPORT (TOTAL) AT TIME 16: 0

SECT NO.	STAT CODE	MATL CODE	PR.RAT LCM/HR	CYCLE(NO DEL) MIN (MIN)	WORK MIN	IDLE MIN	DOWN MIN	ENERGY CONS KWH/LCM	PRODUC. LCM
1	2	1	907	30.(30.)	419	0	0	2.21	11074
2	2	1	907	25.(25.)	419	0	0	0.97	11073
3	2	1	0	29.(29.)	419	0	0	1.39	5548
4	2	1	0	25.(25.)	471	0	0	1.24	5866
5	2	1	895	24.(24.)	456	0	0	1.22	5548

CONVEYOR UTILIZATION REPORT AT TIME 16: 0

RUNNING:

SECTION NO.	LOADED MIN	%	EMPTY MIN	%
1	395	94.1	24	5.9
2	407	97.1	12	2.9
3	384	91.6	35	8.4
4	422	89.5	49	10.5
5	430	94.3	26	5.7

DELAYS:

SECTION NO.	WAITING MIN	WAITING %	RELOCATION MIN	RELOCATION %	ROLLERS MIN	ROLLERS %	TRIPPING MIN	TRIPPING %	SWITCHOVER MIN	SWITCHOVER %	REVERSE MIN	REVERSE %
1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0

BELT OVERLOADS:

SECTION NO.	FREQUENCY	CUMUL.EXCESS LCM/HR
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0

CONVEYOR PERFORMANCE INDICATORS

SECTION NO.	MECH.AVAIL %	DEMAND %	UTILIZ %	OP.EFF %
1	100.00	100.00	87.48	100.00
2	100.00	100.00	87.48	100.00
3	100.00	100.00	87.46	100.00
4	100.00	100.00	98.27	100.00
5	100.00	100.00	95.17	100.00
AVE	100.00	100.00	91.17	100.00

MAXIMUM VELOCITY = 2.0 m/s

FEEDING EQUIPMENT REPORT (TOTAL) AT 16: 0

Unit No.	Current Feed- Rate(BCM/Hr)	Grade(%)	Cumulative Production (BCM) Hour	Shift	Day	Simul.
1	638	7.0	0	0	0	4434
2	663	7.8	0	0	0	4363

Unit No.	Current Status Code	Cumulative Status Time in min.(%) 1	2	3	4	5
1	1	398(83)	82(17)	0(0)	0(0)	0(0)
2	1	416(87)	64(13)	0(0)	0(0)	0(0)

Status Codes:
1 Operating
2 Self-delayed
3 Delayed due to Receiving Equipment
4 Idle
5 Broken down

CONVEYOR NETWORK REPORT (TOTAL) AT TIME 16: 0

SECT NO.	STAT CODE	MATL CODE	PR.RAT LCM/HR	CYCLE(NO DEL) MIN (MIN)	WORK MIN	IDLE MIN	DOWN MIN	ENERGY CONS KWH/LCM	PRODUC. LCM
1	2	1	907	30.(30.)	419	0	0	2.21	11074
2	2	1	907	25.(25.)	419	0	0	0.97	11073
3	2	1	0	29.(29.)	419	0	0	1.39	5548
4	2	1	0	25.(25.)	471	0	0	1.24	5866
5	2	1	895	24.(24.)	456	0	0	1.22	5548

CONVEYOR UTILIZATION REPORT AT TIME 16: 0

RUNNING:

SECTION NO.	LOADED MIN	%	EMPTY MIN	%
1	395	94.1	24	5.9
2	407	97.1	12	2.9
3	384	91.6	35	8.4
4	422	89.5	49	10.5
5	430	94.3	26	5.7

DELAYS:

SECTION NO.	WAITING MIN	WAITING %	RELOCATION MIN	RELOCATION %	ROLLERS MIN	ROLLERS %	TRIPPING MIN	TRIPPING %	SWITCHOVER MIN	SWITCHOVER %	REVERSE MIN	REVERSE %
1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0

BELT OVERLOADS:

SECTION NO.	FREQUENCY	CUMUL.EXCESS LCM/HR
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0

CONVEYOR PERFORMANCE INDICATORS

SECTION NO.	MECH.AVAIL %	DEMAND %	UTILIZ %	OP.EFF %
1	100.00	100.00	87.48	100.00
2	100.00	100.00	87.48	100.00
3	100.00	100.00	87.46	100.00
4	100.00	100.00	98.27	100.00
5	100.00	100.00	95.17	100.00
AVE	100.00	100.00	91.17	100.00

MAXIMUM VELOCITY = 3.0 m/s

FEEDING EQUIPMENT REPORT (TOTAL) AT 16: 0

Unit No.	Current Feed- Rate(BCM/Hr)	Grade(%)	Cumulative Production (BCM) Hour	Shift	Day	Simul.
1	638	7.0	0	0	0	4434
2	663	7.8	0	0	0	4363

Unit No.	Current Status Code	Cumulative Status Time in min.(%) 1	2	3	4	5
1	1	398(83)	82(17)	0(0)	0(0)	0(0)
2	1	416(87)	64(13)	0(0)	0(0)	0(0)

Status Codes:
1 Operating
2 Self-delayed
3 Delayed due to Receiving Equipment
4 Idle
5 Broken down

CONVEYOR NETWORK REPORT (TOTAL) AT TIME 16: 0

SECT NO.	STAT CODE	MATL CODE	PR.RAT LCM/HR	CYCLE(NO DEL) MIN (MIN)	WORK MIN	IDLE MIN	DOWN MIN	ENERGY CONS KWH/LCM	PRODUC. LCM
1	2	1	907	30.(30.)	419	0	0	2.21	11074
2	2	1	907	25.(25.)	419	0	0	0.97	11073
3	2	1	0	29.(29.)	419	0	0	1.39	5548
4	2	1	0	25.(25.)	471	0	0	1.24	5866
5	2	1	895	24.(24.)	456	0	0	1.22	5548

CONVEYOR UTILIZATION REPORT AT TIME 16: 0

RUNNING:

SECTION NO.	LOADED MIN	%	EMPTY MIN	%
1	395	94.1	24	5.9
2	407	97.1	12	2.9
3	384	91.6	35	8.4
4	422	89.5	49	10.5
5	430	94.3	26	5.7

DELAYS:

SECTION NO.	WAITING MIN	WAITING %	RELOCATION MIN	RELOCATION %	ROLLERS MIN	ROLLERS %	TRIPPING MIN	TRIPPING %	SWITCHOVER MIN	SWITCHOVER %	REVERSE MIN	REVERSE %
1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0

BELT OVERLOADS:

SECTION NO.	FREQUENCY	CUMUL.EXCESS LCM/HR
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0

CONVEYOR PERFORMANCE INDICATORS

SECTION NO.	MECH.AVAIL %	DEMAND %	UTILIZ %	OP.EFF %
1	100.00	100.00	87.48	100.00
2	100.00	100.00	87.48	100.00
3	100.00	100.00	87.46	100.00
4	100.00	100.00	98.27	100.00
5	100.00	100.00	95.17	100.00
AVE	100.00	100.00	91.17	100.00

MAXIMUM VELOCITY = 4.06 m/s

FEEDING EQUIPMENT REPORT (TOTAL) AT 16: 0

Unit No.	Current Feed- Rate(BCM/Hr)	Grade(%)	Cumulative Production (BCM) Hour	Shift	Day	Simul.
1	638	7.0	0	0	0	4434
2	663	7.8	0	0	0	4363

Unit No.	Current Status Code	Cumulative Status Time in min.(%) 1	2	3	4	5
1	1	398(83)	82(17)	0(0)	0(0)	0(0)
2	1	416(87)	64(13)	0(0)	0(0)	0(0)

Status Codes:
1 Operating
2 Self-delayed
3 Delayed due to Receiving Equipment
4 Idle
5 Broken down

CONVEYOR NETWORK REPORT (TOTAL) AT TIME 16: 0

SECT NO.	STAT CODE	MATL CODE	PR.RAT LCM/HR	CYCLE(NO DEL) MIN (MIN)	WORK MIN	IDLE MIN	DOWN MIN	ENERGY CONS KWH/LCM	PRODUC. LCM
1	2	1	907	30.(30.)	419	0	0	2.21	11074
2	2	1	907	25.(25.)	419	0	0	0.97	11073
3	2	1	0	29.(29.)	419	0	0	1.39	5548
4	2	1	0	25.(25.)	471	0	0	1.24	5866
5	2	1	895	24.(24.)	456	0	0	1.22	5548

CONVEYOR UTILIZATION REPORT AT TIME 16: 0

RUNNING:

SECTION NO.	LOADED MIN	%	EMPTY MIN	%
1	395	94.1	24	5.9
2	407	97.1	12	2.9
3	384	91.6	35	8.4
4	422	89.5	49	10.5
5	430	94.3	26	5.7

DELAYS:

SECTION NO.	WAITING MIN	WAITING %	RELOCATION MIN	RELOCATION %	ROLLERS MIN	ROLLERS %	TRIPPING MIN	TRIPPING %	SWITCHOVER MIN	SWITCHOVER %	REVERSE MIN	REVERSE %
1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0

BELT OVERLOADS:

SECTION NO.	FREQUENCY	CUMUL.EXCESS LCM/HR
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0

CONVEYOR PERFORMANCE INDICATORS

SECTION NO.	MECH.AVAIL %	DEMAND %	UTILIZ %	OP.EFF %
1	100.00	100.00	87.48	100.00
2	100.00	100.00	87.48	100.00
3	100.00	100.00	87.46	100.00
4	100.00	100.00	98.27	100.00
5	100.00	100.00	95.17	100.00
AVE	100.00	100.00	91.17	100.00

BELT WIDTH = 54 in

FEEDING EQUIPMENT REPORT (TOTAL) AT 16: 0

Unit No.	Current Feed- Rate(BCM/Hr)	Grade(%)	Cumulative Production (BCM) Hour	Shift	Day	Simul.
1	638	7.0	0	0	0	4434
2	663	7.8	0	0	0	4363

Unit No.	Current Status Code	Cumulative Status Time in min.(%) 1	2	3	4	5
1	1	398(83)	82(17)	0(0)	0(0)	0(0)
2	1	416(87)	64(13)	0(0)	0(0)	0(0)

Status Codes:
1 Operating
2 Self-delayed
3 Delayed due to Receiving Equipment
4 Idle
5 Broken down

CONVEYOR NETWORK REPORT (TOTAL) AT TIME 16: 0

SECT NO.	STAT CODE	MATL CODE	PR.RAT LCM/HR	CYCLE(NO DEL) MIN (MIN)	WORK MIN	IDLE MIN	DOWN MIN	ENERGY CONS KWH/LCM	PRODUC. LCM
1	2	1	907	30.(30.)	419	0	0	2.22	10577
2	2	1	907	25.(25.)	419	0	0	0.99	11075
3	2	1	907	49.(49.)	419	0	0	0.99	5213
4	2	1	0	42.(42.)	471	0	0	0.87	5869
5	2	1	895	40.(40.)	419	0	0	0.85	5547

CONVEYOR UTILIZATION REPORT AT TIME 16: 0

RUNNING:

SECTION NO.	LOADED MIN	%	EMPTY MIN	%
1	386	92.1	33	7.9
2	399	95.0	20	5.0
3	386	92.1	33	7.9
4	430	91.3	41	8.7
5	402	95.8	17	4.2

DELAYS:

SECTION NO.	WAITING MIN	WAITING %	RELOCATION MIN	RELOCATION %	ROLLERS MIN	ROLLERS %	TRIPPING MIN	TRIPPING %	SWITCHOVER MIN	SWITCHOVER %	REVERSE MIN	REVERSE %
1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0

BELT OVERLOADS:

SECTION NO.	FREQUENCY	CUMUL.EXCESS LCM/HR
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0

CONVEYOR PERFORMANCE INDICATORS

SECTION NO.	MECH.AVAIL %	DEMAND %	UTILIZ %	OP.EFF %
1	100.00	100.00	87.48	100.00
2	100.00	100.00	87.48	100.00
3	100.00	100.00	87.44	100.00
4	100.00	100.00	98.27	100.00
5	100.00	100.00	87.48	100.00
AVE	100.00	100.00	89.63	100.00

BELT WIDTH = 60 in

FEEDING EQUIPMENT REPORT (TOTAL) AT 16: 0

Unit No.	Current Feed- Rate(BCM/Hr)	Grade(%)	Cumulative Production (BCM) Hour	Shift	Day	Simul.
1	638	7.0	0	0	0	4434
2	663	7.8	0	0	0	4363

Unit No.	Current Status Code	Cumulative Status Time in min.(%) 1	2	3	4	5
1	1	398(83)	82(17)	0(0)	0(0)	0(0)
2	1	416(87)	64(13)	0(0)	0(0)	0(0)

Status Codes:
1 Operating
2 Self-delayed
3 Delayed due to Receiving Equipment
4 Idle
5 Broken down

CONVEYOR NETWORK REPORT (TOTAL) AT TIME 16: 0

SECT NO.	STAT CODE	MATL CODE	PR.RAT LCM/HR	CYCLE(NO DEL) MIN (MIN)	WORK MIN	IDLE MIN	DOWN MIN	ENERGY CONS KWH/LCM	PRODUC. LCM
1	2	1	907	37.(37.)	419	0	0	1.91	10576
2	2	1	907	31.(31.)	419	0	0	0.86	10576
3	2	1	907	61.(61.)	419	0	0	0.88	5213
4	2	1	0	52.(52.)	471	0	0	0.78	5866
5	2	1	0	50.(50.)	419	0	0	0.76	5547

CONVEYOR UTILIZATION REPORT AT TIME 16: 0

RUNNING:

SECTION NO.	LOADED MIN	%	EMPTY MIN	%
1	378	90.2	41	9.8
2	393	93.8	26	6.2
3	387	92.3	32	7.7
4	435	92.4	35	7.6
5	407	97.0	12	3.0

BELT WIDTH = 66 in

FEEDING EQUIPMENT REPORT (TOTAL) AT 16: 0

Unit No.	Current Feed- Rate(BCM/Hr)	Grade(%)	Cumulative Production (BCM) Hour	Shift	Day	Simul.
1	638	7.0	0	0	0	4434
2	663	7.8	0	0	0	4363

Unit No.	Current Status Code	Cumulative Status Time in min.(%) 1	2	3	4	5
1	1	398(83)	82(17)	0(0)	0(0)	0(0)
2	1	416(87)	64(13)	0(0)	0(0)	0(0)

Status Codes:
1 Operating
2 Self-delayed
3 Delayed due to Receiving Equipment
4 Idle
5 Broken down

CONVEYOR NETWORK REPORT (TOTAL) AT TIME 16: 0

SECT NO.	STAT CODE	MATL CODE	PR.RAT LCM/HR	CYCLE(NO DEL) MIN (MIN)	WORK MIN	IDLE MIN	DOWN MIN	ENERGY CONS KWH/LCM	PRODUC. LCM
1	2	1	1770	45.(45.)	419	0	0	1.71	9840
2	2	1	907	37.(37.)	419	0	0	0.79	10576
3	2	1	907	75.(75.)	419	0	0	0.83	4710
4	2	1	0	64.(64.)	471	0	0	0.72	5865
5	2	1	0	61.(61.)	419	0	0	0.70	5547

CONVEYOR UTILIZATION REPORT AT TIME 16: 0

RUNNING:

SECTION NO.	LOADED MIN	%	EMPTY MIN	%
1	369	88.0	50	12.0
2	388	92.5	31	7.5
3	388	92.6	31	7.4
4	441	93.6	30	6.4
5	412	98.3	7	1.7

DELAYS:

SECTION NO.	WAITING MIN	WAITING %	RELOCATION MIN	RELOCATION %	ROLLERS MIN	ROLLERS %	TRIPPING MIN	TRIPPING %	SWITCHOVER MIN	SWITCHOVER %	REVERSE MIN	REVERSE %
1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0

BELT OVERLOADS:

SECTION NO.	FREQUENCY	CUMUL.EXCESS LCM/HR
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0

CONVEYOR PERFORMANCE INDICATORS

SECTION NO.	MECH.AVAIL %	DEMAND %	UTILIZ %	OP.EFF %
1	100.00	100.00	87.48	100.00
2	100.00	100.00	87.48	100.00
3	100.00	100.00	87.44	100.00
4	100.00	100.00	98.27	100.00
5	100.00	100.00	87.48	100.00
AVE	100.00	100.00	89.63	100.00

DELAYS:

SECTION NO.	WAITING MIN	WAITING %	RELOCATION MIN	RELOCATION %	ROLLERS MIN	ROLLERS %	TRIPPING MIN	TRIPPING %	SWITCHOVER MIN	SWITCHOVER %	REVERSE MIN	REVERSE %
1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0

BELT OVERLOADS:

SECTION NO.	FREQUENCY	CUMUL.EXCESS LCM/HR
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0

CONVEYOR PERFORMANCE INDICATORS

SECTION NO.	MECH.AVAIL %	DEMAND %	UTILIZ %	OP.EFF %
1	100.00	100.00	87.48	100.00
2	100.00	100.00	87.48	100.00
3	100.00	100.00	87.48	100.00
4	100.00	100.00	98.27	100.00
5	100.00	100.00	87.46	100.00
AVE	100.00	100.00	89.63	100.00

BELT WIDTH = 72 in

FEEDING EQUIPMENT REPORT (TOTAL) AT 16: 0

Unit No.	Current Feed- Rate(BCM/Hr)	Grade(%)	Cumulative Production (BCM) Hour	Shift	Day	Simul.
1	638	7.0	0	0	0	4434
2	663	7.8	0	0	0	4363

Unit No.	Current Status Code	Cumulative Status Time in min.(%) 1	2	3	4	5
1	1	398(83)	82(17)	0(0)	0(0)	0(0)
2	1	416(87)	64(13)	0(0)	0(0)	0(0)

Status Codes:
1 Operating
2 Self-delayed
3 Delayed due to Receiving Equipment
4 Idle
5 Broken down

CONVEYOR NETWORK REPORT (TOTAL) AT TIME 16: 0

SECT NO.	STAT CODE	MATL CODE	PR.RAT LCM/HR	CYCLE(NO DEL) MIN (MIN)	WORK MIN	IDLE MIN	DOWN MIN	ENERGY CONS KWH/LCM	PRODUC. LCM
1	2	1	1811	54.(54.)	420	0	0	1.54	9739
2	2	1	818	45.(45.)	420	0	0	0.72	10261
3	2	1	907	90.(90.)	419	0	0	0.77	4709
4	2	1	0	76.(76.)	471	0	0	0.68	5868
5	2	1	907	74.(74.)	419	0	0	0.65	5211

CONVEYOR UTILIZATION REPORT AT TIME 16: 0

RUNNING:

SECTION NO.	LOADED MIN	%	EMPTY MIN	%
1	359	85.6	60	14.4
2	382	91.0	38	9.0
3	383	91.3	36	8.7
4	447	94.9	23	5.1
5	418	99.7	1	0.3

DELAYS:

SECTION NO.	WAITING MIN	WAITING %	RELOCATION MIN	RELOCATION %	ROLLERS MIN	ROLLERS %	TRIPPING MIN	TRIPPING %	SWITCHOVER MIN	SWITCHOVER %	REVERSE MIN	REVERSE %
1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0

BELT OVERLOADS:

SECTION NO.	FREQUENCY	CUMUL.EXCESS LCM/HR
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0

CONVEYOR PERFORMANCE INDICATORS

SECTION NO.	MECH.AVAIL %	DEMAND %	UTILIZ %	OP.EFF %
1	100.00	100.00	87.50	100.00
2	100.00	100.00	87.50	100.00
3	100.00	100.00	87.48	100.00
4	100.00	100.00	98.27	100.00
5	100.00	100.00	87.48	100.00
AVE	100.00	100.00	89.65	100.00

BELT WIDTH = 78 in

FEEDING EQUIPMENT REPORT (TOTAL) AT 16: 0

Unit No.	Current Feed- Rate(BCM/Hr)	Grade(%)	Cumulative Production (BCM) Hour	Shift	Day	Simul.
1	638	7.0	0	0	0	4434
2	663	7.8	0	0	0	4363

Unit No.	Current Status Code	Cumulative Status Time in min.(%) 1	2	3	4	5
1	1	398(83)	82(17)	0(0)	0(0)	0(0)
2	1	416(87)	64(13)	0(0)	0(0)	0(0)

Status Codes:
1 Operating
2 Self-delayed
3 Delayed due to Receiving Equipment
4 Idle
5 Broken down

CONVEYOR NETWORK REPORT (TOTAL) AT TIME 16: 0

SECT NO.	STAT CODE	MATL CODE	PR.RAT LCM/HR	CYCLE(NO DEL) MIN (MIN)	WORK MIN	IDLE MIN	DOWN MIN	ENERGY CONS KWH/LCM	PRODUC. LCM
1	2	1	1889	64.(64.)	419	0	0	1.46	8992
2	2	1	1770	53.(53.)	419	0	0	0.67	10041
3	2	1	818	106.(106.)	419	0	0	0.72	4234
4	2	1	0	90.(90.)	471	0	0	0.64	5868
5	2	1	907	87.(87.)	420	0	0	0.61	5213

CONVEYOR UTILIZATION REPORT AT TIME 16: 0

RUNNING:

SECTION NO.	LOADED MIN	%	EMPTY MIN	%
1	348	83.0	71	17.0
2	375	89.3	44	10.7
3	376	89.7	43	10.3
4	454	96.4	17	3.6
5	420	100.0	0	0.0

DELAYS:

SECTION NO.	WAITING MIN	WAITING %	RELOCATION MIN	RELOCATION %	ROLLERS MIN	ROLLERS %	TRIPPING MIN	TRIPPING %	SWITCHOVER MIN	SWITCHOVER %	REVERSE MIN	REVERSE %
1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0

BELT OVERLOADS:

SECTION NO.	FREQUENCY	CUMUL.EXCESS LCM/HR
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0

CONVEYOR PERFORMANCE INDICATORS

SECTION NO.	MECH.AVAIL %	DEMAND %	UTILIZ %	OP.EFF %
1	100.00	100.00	87.48	100.00
2	100.00	100.00	87.48	100.00
3	100.00	100.00	87.48	100.00
4	100.00	100.00	98.25	100.00
5	100.00	100.00	87.50	100.00
AVE	100.00	100.00	89.64	100.00

IDLER SPACING = 1.2 m

FEEDING EQUIPMENT REPORT (TOTAL) AT 16: 0

Unit No.	Current Feed- Rate(BCM/Hr)	Grade(%)	Cumulative Production (BCM) Hour	Shift	Day	Simul.
1	638	7.0	0	0	0	4434
2	663	7.8	0	0	0	4363

Unit No.	Current Status Code	Cumulative Status Time in min.(%) 1	2	3	4	5
1	1	398(83)	82(17)	0(0)	0(0)	0(0)
2	1	416(87)	64(13)	0(0)	0(0)	0(0)

Status Codes:
1 Operating
2 Self-delayed
3 Delayed due to Receiving Equipment
4 Idle
5 Broken down

CONVEYOR NETWORK REPORT (TOTAL) AT TIME 16: 0

SECT NO.	STAT CODE	MATL CODE	PR.RAT LCM/HR	CYCLE(NO DEL) MIN (MIN)	WORK MIN	IDLE MIN	DOWN MIN	ENERGY CONS KWH/LCM	PRODUC. LCM
1	2	1	907	30.(30.)	419	0	0	2.20	11074
2	2	1	907	25.(25.)	419	0	0	0.97	11073
3	2	1	0	29.(29.)	419	0	0	1.39	5548
4	2	1	0	25.(25.)	471	0	0	1.24	5866
5	2	1	895	24.(24.)	456	0	0	1.22	5548

CONVEYOR UTILIZATION REPORT AT TIME 16: 0

RUNNING:

SECTION NO.	LOADED MIN	%	EMPTY MIN	%
1	395	94.1	24	5.9
2	407	97.1	12	2.9
3	384	91.6	35	8.4
4	422	89.5	49	10.5
5	430	94.3	26	5.7

DELAYS:

SECTION NO.	WAITING MIN	WAITING %	RELOCATION MIN	RELOCATION %	ROLLERS MIN	ROLLERS %	TRIPPING MIN	TRIPPING %	SWITCHOVER MIN	SWITCHOVER %	REVERSE MIN	REVERSE %
1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0

BELT OVERLOADS:

SECTION NO.	FREQUENCY	CUMUL.EXCESS LCM/HR
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0

CONVEYOR PERFORMANCE INDICATORS

SECTION NO.	MECH.AVAIL %	DEMAND %	UTILIZ %	OP.EFF %
1	100.00	100.00	87.48	100.00
2	100.00	100.00	87.48	100.00
3	100.00	100.00	87.46	100.00
4	100.00	100.00	98.27	100.00
5	100.00	100.00	95.17	100.00
AVE	100.00	100.00	91.17	100.00

IDLER SPACING = 1.4 m

FEEDING EQUIPMENT REPORT (TOTAL) AT 16: 0

Unit No.	Current Feed- Rate(BCM/Hr)	Grade(%)	Cumulative Production (BCM) Hour	Shift	Day	Simul.
1	638	7.0	0	0	0	4434
2	663	7.8	0	0	0	4363

Unit No.	Current Status Code	Cumulative Status Time in min.(%) 1	2	3	4	5
1	1	398(83)	82(17)	0(0)	0(0)	0(0)
2	1	416(87)	64(13)	0(0)	0(0)	0(0)

Status Codes:
1 Operating
2 Self-delayed
3 Delayed due to Receiving Equipment
4 Idle
5 Broken down

CONVEYOR NETWORK REPORT (TOTAL) AT TIME 16: 0

SECT NO.	STAT CODE	MATL CODE	PR.RAT LCM/HR	CYCLE(NO DEL) MIN (MIN)	WORK MIN	IDLE MIN	DOWN MIN	ENERGY CONS KWH/LCM	PRODUC. LCM
1	2	1	907	30.(30.)	419	0	0	2.30	11074
2	2	1	907	25.(25.)	419	0	0	0.99	11073
3	2	1	0	29.(29.)	419	0	0	1.41	5548
4	2	1	0	25.(25.)	471	0	0	1.26	5866
5	2	1	895	24.(24.)	456	0	0	1.23	5548

CONVEYOR UTILIZATION REPORT AT TIME 16: 0

RUNNING:

SECTION NO.	LOADED MIN	%	EMPTY MIN	%
1	395	94.1	24	5.9
2	407	97.1	12	2.9
3	384	91.6	35	8.4
4	422	89.5	49	10.5
5	430	94.3	26	5.7

DELAYS:

SECTION NO.	WAITING MIN	WAITING %	RELOCATION MIN	RELOCATION %	ROLLERS MIN	ROLLERS %	TRIPPING MIN	TRIPPING %	SWITCHOVER MIN	SWITCHOVER %	REVERSE MIN	REVERSE %
1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0

BELT OVERLOADS:

SECTION NO.	FREQUENCY	CUMUL.EXCESS LCM/HR
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0

CONVEYOR PERFORMANCE INDICATORS

SECTION NO.	MECH.AVAIL %	DEMAND %	UTILIZ %	OP.EFF %
1	100.00	100.00	87.48	100.00
2	100.00	100.00	87.48	100.00
3	100.00	100.00	87.46	100.00
4	100.00	100.00	98.27	100.00
5	100.00	100.00	95.17	100.00
AVE	100.00	100.00	91.17	100.00

IDLER SPACING = 1.6 m

FEEDING EQUIPMENT REPORT (TOTAL) AT 16: 0

Unit No.	Current Feed- Rate(BCM/Hr)	Grade(%)	Cumulative Production (BCM) Hour	Shift	Day	Simul.
1	638	7.0	0	0	0	4434
2	663	7.8	0	0	0	4363

Unit No.	Current Status Code	Cumulative Status Time in min.(%) 1	2	3	4	5
1	1	398(83)	82(17)	0(0)	0(0)	0(0)
2	1	416(87)	64(13)	0(0)	0(0)	0(0)

Status Codes:
1 Operating
2 Self-delayed
3 Delayed due to Receiving Equipment
4 Idle
5 Broken down

CONVEYOR NETWORK REPORT (TOTAL) AT TIME 16: 0

SECT NO.	STAT CODE	MATL CODE	PR.RAT LCM/HR	CYCLE(NO DEL) MIN (MIN)	WORK MIN	IDLE MIN	DOWN MIN	ENERGY CONS KWH/LCM	PRODUC. LCM
1	2	1	907	30.(30.)	419	0	0	2.41	11074
2	2	1	907	25.(25.)	419	0	0	1.03	11073
3	2	1	0	29.(29.)	419	0	0	1.44	5548
4	2	1	0	25.(25.)	471	0	0	1.28	5866
5	2	1	895	24.(24.)	456	0	0	1.26	5548

CONVEYOR UTILIZATION REPORT AT TIME 16: 0

RUNNING:

SECTION NO.	LOADED MIN	%	EMPTY MIN	%
1	395	94.1	24	5.9
2	407	97.1	12	2.9
3	384	91.6	35	8.4
4	422	89.5	49	10.5
5	430	94.3	26	5.7

DELAYS:

SECTION NO.	WAITING MIN	WAITING %	RELOCATION MIN	RELOCATION %	ROLLERS MIN	ROLLERS %	TRIPPING MIN	TRIPPING %	SWITCHOVER MIN	SWITCHOVER %	REVERSE MIN	REVERSE %
1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0

BELT OVERLOADS:

SECTION NO.	FREQUENCY	CUMUL.EXCESS LCM/HR
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0

CONVEYOR PERFORMANCE INDICATORS

SECTION NO.	MECH.AVAIL %	DEMAND %	UTILIZ %	OP.EFF %
1	100.00	100.00	87.48	100.00
2	100.00	100.00	87.48	100.00
3	100.00	100.00	87.46	100.00
4	100.00	100.00	98.27	100.00
5	100.00	100.00	95.17	100.00
AVE	100.00	100.00	91.17	100.00

IDLER SPACING = 1.8 m

FEEDING EQUIPMENT REPORT (TOTAL) AT 16: 0

Unit No.	Current Feed- Rate(BCM/Hr)	Grade(%)	Cumulative Production (BCM) Hour	Shift	Day	Simul.
1	638	7.0	0	0	0	4434
2	663	7.8	0	0	0	4363

Unit No.	Current Status Code	Cumulative Status Time in min.(%) 1	2	3	4	5
1	1	398(83)	82(17)	0(0)	0(0)	0(0)
2	1	416(87)	64(13)	0(0)	0(0)	0(0)

Status Codes:
1 Operating
2 Self-delayed
3 Delayed due to Receiving Equipment
4 Idle
5 Broken down

CONVEYOR NETWORK REPORT (TOTAL) AT TIME 16: 0

SECT NO.	STAT CODE	MATL CODE	PR.RAT LCM/HR	CYCLE(NO DEL) MIN (MIN)	WORK MIN	IDLE MIN	DOWN MIN	ENERGY CONS KWH/LCM	PRODUC. LCM
1	2	1	907	30.(30.)	419	0	0	2.52	11074
2	2	1	907	25.(25.)	419	0	0	1.07	11073
3	2	1	0	29.(29.)	419	0	0	1.48	5548
4	2	1	0	25.(25.)	471	0	0	1.32	5866
5	2	1	895	24.(24.)	456	0	0	1.29	5548

CONVEYOR UTILIZATION REPORT AT TIME 16: 0

RUNNING:

SECTION NO.	LOADED MIN	%	EMPTY MIN	%
1	395	94.1	24	5.9
2	407	97.1	12	2.9
3	384	91.6	35	8.4
4	422	89.5	49	10.5
5	430	94.3	26	5.7

DELAYS:

SECTION NO.	WAITING MIN	WAITING %	RELOCATION MIN	RELOCATION %	ROLLERS MIN	ROLLERS %	TRIPPING MIN	TRIPPING %	SWITCHOVER MIN	SWITCHOVER %	REVERSE MIN	REVERSE %
1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0

BELT OVERLOADS:

SECTION NO.	FREQUENCY	CUMUL.EXCESS LCM/HR
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0

CONVEYOR PERFORMANCE INDICATORS

SECTION NO.	MECH.AVAIL %	DEMAND %	UTILIZ %	OP.EFF %
1	100.00	100.00	87.48	100.00
2	100.00	100.00	87.48	100.00
3	100.00	100.00	87.46	100.00
4	100.00	100.00	98.27	100.00
5	100.00	100.00	95.17	100.00
AVE	100.00	100.00	91.17	100.00

IDLER SPACING = 2.0 m

FEEDING EQUIPMENT REPORT (TOTAL) AT 16: 0

Unit No.	Current Feed- Rate(BCM/Hr)	Grade(%)	Cumulative Production (BCM) Hour	Shift	Day	Simul.
1	638	7.0	0	0	0	4434
2	663	7.8	0	0	0	4363

Unit No.	Current Status Code	Cumulative Status Time in min.(%) 1	2	3	4	5
1	1	398(83)	82(17)	0(0)	0(0)	0(0)
2	1	416(87)	64(13)	0(0)	0(0)	0(0)

Status Codes:
1 Operating
2 Self-delayed
3 Delayed due to Receiving Equipment
4 Idle
5 Broken down

CONVEYOR NETWORK REPORT (TOTAL) AT TIME 16: 0

SECT NO.	STAT CODE	MATL CODE	PR.RAT LCM/HR	CYCLE(NO DEL) MIN (MIN)	WORK MIN	IDLE MIN	DOWN MIN	ENERGY CONS KWH/LCM	PRODUC. LCM
1	2	1	907	30.(30.)	419	0	0	2.64	11074
2	2	1	907	25.(25.)	419	0	0	1.11	11073
3	2	1	0	29.(29.)	419	0	0	1.53	5548
4	2	1	0	25.(25.)	471	0	0	1.35	5866
5	2	1	895	24.(24.)	456	0	0	1.33	5548

CONVEYOR UTILIZATION REPORT AT TIME 16: 0

RUNNING:

SECTION NO.	LOADED MIN	%	EMPTY MIN	%
1	395	94.1	24	5.9
2	407	97.1	12	2.9
3	384	91.6	35	8.4
4	422	89.5	49	10.5
5	430	94.3	26	5.7

DELAYS:

SECTION NO.	WAITING MIN	WAITING %	RELOCATION MIN	RELOCATION %	ROLLERS MIN	ROLLERS %	TRIPPING MIN	TRIPPING %	SWITCHOVER MIN	SWITCHOVER %	REVERSE MIN	REVERSE %
1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0

BELT OVERLOADS:

SECTION NO.	FREQUENCY	CUMUL.EXCESS LCM/HR
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0

CONVEYOR PERFORMANCE INDICATORS

SECTION NO.	MECH.AVAIL %	DEMAND %	UTILIZ %	OP.EFF %
1	100.00	100.00	87.48	100.00
2	100.00	100.00	87.48	100.00
3	100.00	100.00	87.46	100.00
4	100.00	100.00	98.27	100.00
5	100.00	100.00	95.17	100.00
AVE	100.00	100.00	91.17	100.00

IDLER SPACING = 2.2 m

FEEDING EQUIPMENT REPORT (TOTAL) AT 16: 0

Unit No.	Current Feed- Rate(BCM/Hr)	Grade(%)	Cumulative Production (BCM) Hour	Shift	Day	Simul.
1	638	7.0	0	0	0	4434
2	663	7.8	0	0	0	4363

Unit No.	Current Status Code	Cumulative Status Time in min.(%) 1	2	3	4	5
1	1	398(83)	82(17)	0(0)	0(0)	0(0)
2	1	416(87)	64(13)	0(0)	0(0)	0(0)

Status Codes:
1 Operating
2 Self-delayed
3 Delayed due to Receiving Equipment
4 Idle
5 Broken down

CONVEYOR NETWORK REPORT (TOTAL) AT TIME 16: 0

SECT NO.	STAT CODE	MATL CODE	PR.RAT LCM/HR	CYCLE(NO DEL) MIN (MIN)	WORK MIN	IDLE MIN	DOWN MIN	ENERGY CONS KWH/LCM	PRODUC. LCM
1	2	1	907	30.(30.)	419	0	0	2.76	11074
2	2	1	907	25.(25.)	419	0	0	1.16	11073
3	2	1	0	29.(29.)	419	0	0	1.57	5548
4	2	1	0	25.(25.)	471	0	0	1.39	5866
5	2	1	895	24.(24.)	456	0	0	1.37	5548

CONVEYOR UTILIZATION REPORT AT TIME 16: 0

RUNNING:

SECTION NO.	LOADED MIN	%	EMPTY MIN	%
1	395	94.1	24	5.9
2	407	97.1	12	2.9
3	384	91.6	35	8.4
4	422	89.5	49	10.5
5	430	94.3	26	5.7

DELAYS:

SECTION NO.	WAITING MIN	WAITING %	RELOCATION MIN	RELOCATION %	ROLLERS MIN	ROLLERS %	TRIPPING MIN	TRIPPING %	SWITCHOVER MIN	SWITCHOVER %	REVERSE MIN	REVERSE %
1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0

BELT OVERLOADS:

SECTION NO.	FREQUENCY	CUMUL.EXCESS LCM/HR
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0

CONVEYOR PERFORMANCE INDICATORS

SECTION NO.	MECH.AVAIL %	DEMAND %	UTILIZ %	OP.EFF %
1	100.00	100.00	87.48	100.00
2	100.00	100.00	87.48	100.00
3	100.00	100.00	87.46	100.00
4	100.00	100.00	98.27	100.00
5	100.00	100.00	95.17	100.00
AVE	100.00	100.00	91.17	100.00

ANGLE FOR CONVEYOR 1 = 0.0 BELOW HORIZONTAL

FEEDING EQUIPMENT REPORT (TOTAL) AT 16: 0

Unit No.	Current Feed- Rate(BCM/Hr)	Grade(%)	Cumulative Production (BCM) Hour	Shift	Day	Simul.
1	638	7.0	0	0	0	4434
2	663	7.8	0	0	0	4363

Unit No.	Current Status Code	Cumulative Status Time in min.(%) 1	2	3	4	5
1	1	398(83)	82(17)	0(0)	0(0)	0(0)
2	1	416(87)	64(13)	0(0)	0(0)	0(0)

Status Codes:
1 Operating
2 Self-delayed
3 Delayed due to Receiving Equipment
4 Idle
5 Broken down

CONVEYOR NETWORK REPORT (TOTAL) AT TIME 16: 0

SECT NO.	STAT CODE	MATL CODE	PR.RAT LCM/HR	CYCLE(NO DEL) MIN	(MIN)	WORK MIN	IDLE MIN	DOWN MIN	ENERGY CONS KWH/LCM	PRODUC. LCM
1	2	1	907	30.(	30.)	419	0	0	2.11	11074
2	2	1	907	25.(	25.)	419	0	0	0.97	11073
3	2	1	0	29.(	29.)	419	0	0	1.39	5548
4	2	1	0	25.(	25.)	471	0	0	1.24	5866
5	2	1	895	24.(	24.)	456	0	0	1.22	5548

CONVEYOR UTILIZATION REPORT AT TIME 16: 0

RUNNING:

SECTION NO.	LOADED MIN	%	EMPTY MIN	%
1	395	94.1	24	5.9
2	407	97.1	12	2.9
3	384	91.6	35	8.4
4	422	89.5	49	10.5
5	430	94.3	26	5.7

DELAYS:

SECTION NO.	WAITING MIN	WAITING %	RELOCATION MIN	RELOCATION %	ROLLERS MIN	ROLLERS %	TRIPPING MIN	TRIPPING %	SWITCHOVER MIN	SWITCHOVER %	REVERSE MIN	REVERSE %
1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0

BELT OVERLOADS:

SECTION NO.	FREQUENCY	CUMUL.EXCESS LCM/HR
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0

CONVEYOR PERFORMANCE INDICATORS

SECTION NO.	MECH.AVAIL %	DEMAND %	UTILIZ %	OP.EFF %
1	100.00	100.00	87.48	100.00
2	100.00	100.00	87.48	100.00
3	100.00	100.00	87.46	100.00
4	100.00	100.00	98.27	100.00
5	100.00	100.00	95.17	100.00
AVE	100.00	100.00	91.17	100.00

ANGLE FOR CONVEYOR 1 = 2.0 BELOW HORIZONTAL

FEEDING EQUIPMENT REPORT (TOTAL) AT 16: 0

Unit No.	Current Feed- Rate(BCM/Hr)	Grade(%)	Cumulative Production (BCM) Hour	Shift	Day	Simul.
1	638	7.0	0	0	0	4434
2	663	7.8	0	0	0	4363

Unit No.	Current Status Code	Cumulative Status Time in min.(%) 1	2	3	4	5
1	1	398(83)	82(17)	0(0)	0(0)	0(0)
2	1	416(87)	64(13)	0(0)	0(0)	0(0)

Status Codes:
1 Operating
2 Self-delayed
3 Delayed due to Receiving Equipment
4 Idle
5 Broken down

CONVEYOR NETWORK REPORT (TOTAL) AT TIME 16: 0

SECT NO.	STAT CODE	MATL CODE	PR.RAT LCM/HR	CYCLE(NO DEL) MIN (MIN)	WORK MIN	IDLE MIN	DOWN MIN	ENERGY CONS KWH/LCM	PRODUC. LCM
1	2	1	907	30.(30.)	419	0	0	1.61	11074
2	2	1	907	25.(25.)	419	0	0	0.97	11073
3	2	1	0	29.(29.)	419	0	0	1.39	5548
4	2	1	0	25.(25.)	471	0	0	1.24	5866
5	2	1	.895	24.(24.)	456	0	0	1.22	5548

CONVEYOR UTILIZATION REPORT AT TIME 16: 0

RUNNING:

SECTION NO.	LOADED MIN	%	EMPTY MIN	%
1	395	94.1	24	5.9
2	407	97.1	12	2.9
3	384	91.6	35	8.4
4	422	89.5	49	10.5
5	430	94.3	26	5.7

DELAYS:

SECTION NO.	WAITING MIN	WAITING %	RELOCATION MIN	RELOCATION %	ROLLERS MIN	ROLLERS %	TRIPPING MIN	TRIPPING %	SWITCHOVER MIN	SWITCHOVER %	REVERSE MIN	REVERSE %
1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0

BELT OVERLOADS:

SECTION NO.	FREQUENCY	CUMUL.EXCESS LCM/HR
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0

CONVEYOR PERFORMANCE INDICATORS

SECTION NO.	MECH.AVAIL %	DEMAND %	UTILIZ %	OP.EFF %
1	100.00	100.00	87.48	100.00
2	100.00	100.00	87.48	100.00
3	100.00	100.00	87.46	100.00
4	100.00	100.00	98.27	100.00
5	100.00	100.00	95.17	100.00
AVE	100.00	100.00	91.17	100.00

ANGLE FOR CONVEYOR 1 = 4.0 BELOW HORIZONTAL

FEEDING EQUIPMENT REPORT (TOTAL) AT 16: 0

Unit No.	Current Feed- Rate(BCM/Hr)	Grade(%)	Cumulative Production (BCM) Hour	Shift	Day	Simul.
1	638	7.0	0	0	0	4434
2	663	7.8	0	0	0	4363

Unit No.	Current Status Code	Cumulative Status Time in min.(%) 1	2	3	4	5
1	1	398(83)	82(17)	0(0)	0(0)	0(0)
2	1	416(87)	64(13)	0(0)	0(0)	0(0)

Status Codes:
1 Operating
2 Self-delayed
3 Delayed due to Receiving Equipment
4 Idle
5 Broken down

CONVEYOR NETWORK REPORT (TOTAL) AT TIME 16: 0

SECT NO.	STAT CODE	MATL CODE	PR.RAT LCM/HR	CYCLE(NO DEL) MIN (MIN)	WORK MIN	IDLE MIN	DOWN MIN	ENERGY CONS KWH/LCM	PRODUC. LCM
1	2	1	907	29.(29.)	419	0	0	1.11	11074
2	2	1	907	25.(25.)	419	0	0	0.97	11073
3	2	1	0	29.(29.)	419	0	0	1.39	5548
4	2	1	0	25.(25.)	471	0	0	1.24	5866
5	2	1	895	24.(24.)	456	0	0	1.22	5548

CONVEYOR UTILIZATION REPORT AT TIME 16: 0

RUNNING:

SECTION NO.	LOADED MIN	%	EMPTY MIN	%
1	395	94.1	24	5.9
2	407	97.1	12	2.9
3	384	91.6	35	8.4
4	422	89.5	49	10.5
5	430	94.3	26	5.7

DELAYS:

SECTION NO.	WAITING MIN	WAITING %	RELOCATION MIN	RELOCATION %	ROLLERS MIN	ROLLERS %	TRIPPING MIN	TRIPPING %	SWITCHOVER MIN	SWITCHOVER %	REVERSE MIN	REVERSE %
1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0

BELT OVERLOADS:

SECTION NO.	FREQUENCY	CUMUL.EXCESS LCM/HR
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0

CONVEYOR PERFORMANCE INDICATORS

SECTION NO.	MECH.AVAIL %	DEMAND %	UTILIZ %	OP.EFF %
1	100.00	100.00	87.48	100.00
2	100.00	100.00	87.48	100.00
3	100.00	100.00	87.46	100.00
4	100.00	100.00	98.27	100.00
5	100.00	100.00	95.17	100.00
AVE	100.00	100.00	91.17	100.00

ANGLE FOR CONVEYOR 1 = 6.0 BELOW HORIZONTAL

FEEDING EQUIPMENT REPORT (TOTAL) AT 16: 0

Unit No.	Current Feed- Rate(BCM/Hr)	Current Feed- Grade(%)	Cumulative Production (BCM) Hour	Shift	Day	Simul.
1	638	7.0	0	0	0	4434
2	663	7.8	0	0	0	4363

Unit No.	Current Status Code	Cumulative Status Time in min.(%) 1	2	3	4	5
1	1	398(83)	82(17)	0(0)	0(0)	0(0)
2	1	416(87)	64(13)	0(0)	0(0)	0(0)

Status Codes:
1 Operating
2 Self-delayed
3 Delayed due to Receiving Equipment
4 Idle
5 Broken down

CONVEYOR NETWORK REPORT (TOTAL) AT TIME 16: 0

SECT NO.	STAT CODE	MATL CODE	PR.RAT LCM/HR	CYCLE(NO DEL) MIN (MIN)	WORK MIN	IDLE MIN	DOWN MIN	ENERGY CONS KWH/LCM	PRODUC. LCM
1	2	1	907	29.(29.)	419	0	0	0.61	11072
2	2	1	907	25.(25.)	419	0	0	0.97	11073
3	2	1	0	29.(29.)	419	0	0	1.39	5548
4	2	1	0	25.(25.)	471	0	0	1.24	5866
5	2	1	895	24.(24.)	456	0	0	1.22	5548

CONVEYOR UTILIZATION REPORT AT TIME 16: 0

RUNNING:

SECTION NO.	LOADED MIN	LOADED %	EMPTY MIN	EMPTY %
1	395	94.1	24	5.9
2	407	97.1	12	2.9
3	384	91.6	35	8.4
4	422	89.5	49	10.5
5	430	94.3	26	5.7

DELAYS:

SECTION NO.	WAITING MIN	WAITING %	RELOCATION MIN	RELOCATION %	ROLLERS MIN	ROLLERS %	TRIPPING MIN	TRIPPING %	SWITCHOVER MIN	SWITCHOVER %	REVERSE MIN	REVERSE %
1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0

BELT OVERLOADS:

SECTION NO.	FREQUENCY	CUMUL.EXCESS LCM/HR
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0

CONVEYOR PERFORMANCE INDICATORS

SECTION NO.	MECH.AVAIL %	DEMAND %	UTILIZ %	OP.EFF %
1	100.00	100.00	87.48	100.00
2	100.00	100.00	87.48	100.00
3	100.00	100.00	87.46	100.00
4	100.00	100.00	98.27	100.00
5	100.00	100.00	95.17	100.00
AVE	100.00	100.00	91.17	100.00

ANGLE FOR CONVEYOR 1 = 8.0 BELOW HORIZONTAL

FEEDING EQUIPMENT REPORT (TOTAL) AT 16: 0

Unit No.	Current Feed- Rate(BCM/Hr)	Current Feed- Grade(%)	Cumulative Production (BCM) Hour	Shift	Day	Simul.
1	638	7.0	0	0	0	4434
2	663	7.8	0	0	0	4363

Unit No.	Current Status Code	Cumulative Status Time in min.(%) 1	2	3	4	5
1	1	398(83)	82(17)	0(0)	0(0)	0(0)
2	1	416(87)	64(13)	0(0)	0(0)	0(0)

Status Codes:
1 Operating
2 Self-delayed
3 Delayed due to Receiving Equipment
4 Idle
5 Broken down

CONVEYOR NETWORK REPORT (TOTAL) AT TIME 16: 0

SECT NO.	STAT CODE	MATL CODE	PR.RAT LCM/HR	CYCLE(NO DEL) MIN (MIN)	WORK MIN	IDLE MIN	DOWN MIN	ENERGY CONS KWH/LCM	PRODUC. LCM
1	2	1	907	29.(29.)	419	0	0	0.11	11074
2	2	1	907	25.(25.)	419	0	0	0.97	11073
3	2	1	0	29.(29.)	419	0	0	1.39	5548
4	2	1	0	25.(25.)	471	0	0	1.24	5866
5	2	1	895	24.(24.)	456	0	0	1.22	5548

CONVEYOR UTILIZATION REPORT AT TIME 16: 0

RUNNING:

SECTION NO.	LOADED MIN	LOADED %	EMPTY MIN	EMPTY %
1	395	94.1	24	5.9
2	407	97.1	12	2.9
3	384	91.6	35	8.4
4	422	89.5	49	10.5
5	430	94.3	26	5.7

DELAYS:

SECTION NO.	WAITING MIN	WAITING %	RELOCATION MIN	RELOCATION %	ROLLERS MIN	ROLLERS %	TRIPPING MIN	TRIPPING %	SWITCHOVER MIN	SWITCHOVER %	REVERSE MIN	REVERSE %
1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0

BELT OVERLOADS:

SECTION NO.	FREQUENCY	CUMUL.EXCESS LCM/HR
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0

CONVEYOR PERFORMANCE INDICATORS

SECTION NO.	MECH.AVAIL %	DEMAND %	UTILIZ %	OP.EFF %
1	100.00	100.00	87.48	100.00
2	100.00	100.00	87.48	100.00
3	100.00	100.00	87.46	100.00
4	100.00	100.00	98.27	100.00
5	100.00	100.00	95.17	100.00
AVE	100.00	100.00	91.17	100.00

ANGLE FOR CONVEYOR 1 = 10.0 BELOW HORIZONTAL

FEEDING EQUIPMENT REPORT (TOTAL) AT 16: 0

Unit No.	Current Feed- Rate(BCM/Hr)	Grade(%)	Cumulative Production (BCM) Hour	Shift	Day	Simul.
1	638	7.0	0	0	0	4434
2	663	7.8	0	0	0	4363

Unit No.	Current Status Code	Cumulative Status Time in min.(%) 1	2	3	4	5
1	1	398(83)	82(17)	0(0)	0(0)	0(0)
2	1	416(87)	64(13)	0(0)	0(0)	0(0)

Status Codes:
1 Operating
2 Self-delayed
3 Delayed due to Receiving Equipment
4 Idle
5 Broken down

CONVEYOR NETWORK REPORT (TOTAL) AT TIME 16: 0

SECT NO.	STAT CODE	MATL CODE	PR.RAT LCM/HR	CYCLE(NO DEL) MIN (MIN)	WORK MIN	IDLE MIN	DOWN MIN	ENERGY CONS KWH/LCM	PRODUC. LCM
1	2	1	907	29.(29.)	419	0	0	-0.38	11072
2	2	1	907	25.(25.)	419	0	0	0.97	11073
3	2	1	0	29.(29.)	419	0	0	1.39	5548
4	2	1	0	25.(25.)	471	0	0	1.24	5866
5	2	1	895	24.(24.)	456	0	0	1.22	5548

CONVEYOR UTILIZATION REPORT AT TIME

RUNNING:

SECTION NO.	LOADED MIN	%	EMPTY MIN	%
1	395	94.1	24	5.9
2	407	97.1	12	2.9
3	384	91.6	35	8.4
4	422	89.5	49	10.5
5	430	94.3	26	5.7

DELAYS:

SECTION NO.	WAITING MIN	WAITING %	RELOCATION MIN	RELOCATION %	ROLLERS MIN	ROLLERS %	TRIPPING MIN	TRIPPING %	SWITCHOVER MIN	SWITCHOVER %	REVERSE MIN	REVERSE %
1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0

BELT OVERLOADS:

SECTION NO.	FREQUENCY	CUMUL.EXCESS LCM/HR
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0

CONVEYOR PERFORMANCE INDICATORS

SECTION NO.	MECH.AVAIL %	DEMAND %	UTILIZ %	OP.EFF %
1	100.00	100.00	87.48	100.00
2	100.00	100.00	87.48	100.00
3	100.00	100.00	87.46	100.00
4	100.00	100.00	98.27	100.00
5	100.00	100.00	95.17	100.00
AVE	100.00	100.00	91.17	100.00

FEED RATE = 300 BCM/HR

FEEDING EQUIPMENT REPORT (TOTAL) AT 16: 0

Unit No.	Current Feed- Rate(BCM/Hr)	Grade(%)	Cumulative Production (BCM) Hour	Shift	Day	Simul.
1	300	7.0	0	0	0	1990
2	300	7.8	0	0	0	2080

Unit No.	Current Status Code	Cumulative Status Time in min.(%) 1	2	3	4	5
1	1	398(83)	82(17)	0(0)	0(0)	0(0)
2	1	416(87)	64(13)	0(0)	0(0)	0(0)

Status Codes:
1 Operating
2 Self-delayed
3 Delayed due to Receiving Equipment
4 Idle
5 Broken down

CONVEYOR NETWORK REPORT (TOTAL) AT TIME 16: 0

SECT NO.	STAT CODE	MATL CODE	PR.RAT LCM/HR	CYCLE(NO DEL) MIN (MIN)	WORK MIN	IDLE MIN	DOWN MIN	ENERGY CONS KWH/LCM	PRODUC. LCM
1	2	1	405	30.(30.)	419	0	0	3.99	5135
2	2	1	405	25.(25.)	419	0	0	1.62	5132
3	2	1	0	29.(29.)	419	0	0	2.46	2658
4	2	1	0	25.(25.)	471	0	0	2.22	2627
5	2	1	405	24.(24.)	456	0	0	2.10	2658

CONVEYOR UTILIZATION REPORT AT TIME 16: 0

RUNNING:

SECTION NO.	LOADED MIN	%	EMPTY MIN	%
1	395	94.1	24	5.9
2	407	97.1	12	2.9
3	384	91.6	35	8.4
4	422	89.5	49	10.5
5	430	94.3	26	5.7

DELAYS:

SECTION NO.	WAITING MIN	WAITING %	RELOCATION MIN	RELOCATION %	ROLLERS MIN	ROLLERS %	TRIPPING MIN	TRIPPING %	SWITCHOVER MIN	SWITCHOVER %	REVERSE MIN	REVERSE %
1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0

BELT OVERLOADS:

SECTION NO.	FREQUENCY	CUMUL.EXCESS LCM/HR
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0

CONVEYOR PERFORMANCE INDICATORS

SECTION NO.	MECH.AVAIL %	DEMAND %	UTILIZ %	OP.EFF %
1	100.00	100.00	87.48	100.00
2	100.00	100.00	87.48	100.00
3	100.00	100.00	87.46	100.00
4	100.00	100.00	98.27	100.00
5	100.00	100.00	95.17	100.00
AVE	100.00	100.00	91.17	100.00

FEED RATE = 400 BCM/HR

FEEDING EQUIPMENT REPORT (TOTAL) AT 16: 0

Unit No.	Current Feed- Rate(BCM/Hr)	Grade(%)	Cumulative Production (BCM) Hour	Shift	Day	Simul.
1	400	7.0	0	0	0	2650
2	400	7.8	0	0	0	2774

Unit No.	Current Status Code	Cumulative Status Time in min.(%) 1	2	3	4	5
1	1	398(83)	82(17)	0(0)	0(0)	0(0)
2	1	416(87)	64(13)	0(0)	0(0)	0(0)

Status Codes:
1 Operating
2 Self-delayed
3 Delayed due to Receiving Equipment
4 Idle
5 Broken down

CONVEYOR NETWORK REPORT (TOTAL) AT TIME 16: 0

SECT NO.	STAT CODE	MATL CODE	PR.RAT LCM/HR	CYCLE(NO DEL) MIN (MIN)	WORK MIN	IDLE MIN	DOWN MIN	ENERGY CONS KWH/LCM	PRODUC. LCM
1	2	1	540	30.(30.)	419	0	0	3.16	6849
2	2	1	540	25.(25.)	419	0	0	1.31	6848
3	2	1	0	29.(29.)	419	0	0	1.94	3543
4	2	1	0	25.(25.)	471	0	0	1.78	3507
5	2	1	540	24.(24.)	456	0	0	1.68	3542

CONVEYOR UTILIZATION REPORT AT TIME 16: 0

RUNNING:

SECTION NO.	LOADED MIN	%	EMPTY MIN	%
1	395	94.1	24	5.9
2	407	97.1	12	2.9
3	384	91.6	35	8.4
4	422	89.5	49	10.5
5	430	94.3	26	5.7

DELAYS:

SECTION NO.	WAITING MIN	WAITING %	RELOCATION MIN	RELOCATION %	ROLLERS MIN	ROLLERS %	TRIPPING MIN	TRIPPING %	SWITCHOVER MIN	SWITCHOVER %	REVERSE MIN	REVERSE %
1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0

BELT OVERLOADS:

SECTION NO.	FREQUENCY	CUMUL.EXCESS LCM/HR
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0

CONVEYOR PERFORMANCE INDICATORS

SECTION NO.	MECH.AVAIL %	DEMAND %	UTILIZ %	OP.EFF %
1	100.00	100.00	87.48	100.00
2	100.00	100.00	87.48	100.00
3	100.00	100.00	87.46	100.00
4	100.00	100.00	98.27	100.00
5	100.00	100.00	95.17	100.00
AVE	100.00	100.00	91.17	100.00

FEED RATE = 500 BCM/HR

FEEDING EQUIPMENT REPORT (TOTAL) AT 16: 0

Unit No.	Current Feed- Rate(BCM/Hr)	Grade(%)	Cumulative Production (BCM) Hour	Shift	Day	Simul.
1	500	7.0	0	0	0	3316
2	500	7.8	0	0	0	3468

Unit No.	Current Status Code	Cumulative Status Time in min.(%) 1	2	3	4	5
1	1	398(83)	82(17)	0(0)	0(0)	0(0)
2	1	416(87)	64(13)	0(0)	0(0)	0(0)

Status Codes:
1 Operating
2 Self-delayed
3 Delayed due to Receiving Equipment
4 Idle
5 Broken down

CONVEYOR NETWORK REPORT (TOTAL) AT TIME 16: 0

SECT NO.	STAT CODE	MATL CODE	PR.RAT LCM/HR	CYCLE(NO DEL) MIN (MIN)	WORK MIN	IDLE MIN	DOWN MIN	ENERGY CONS KWH/LCM	PRODUC. LCM
1	2	1	675	30.(30.)	419	0	0	2.66	8561
2	2	1	675	25.(25.)	419	0	0	1.13	8559
3	2	1	0	29.(29.)	419	0	0	1.64	4425
4	2	1	0	25.(25.)	471	0	0	1.51	4382
5	2	1	675	24.(24.)	456	0	0	1.42	4422

CONVEYOR UTILIZATION REPORT AT TIME 16: 0

RUNNING:

SECTION NO.	LOADED MIN	%	EMPTY MIN	%
1	395	94.1	24	5.9
2	407	97.1	12	2.9
3	384	91.6	35	8.4
4	422	89.5	49	10.5
5	430	94.3	26	5.7

DELAYS:

SECTION NO.	WAITING MIN	WAITING %	RELOCATION MIN	RELOCATION %	ROLLERS MIN	ROLLERS %	TRIPPING MIN	TRIPPING %	SWITCHOVER MIN	SWITCHOVER %	REVERSE MIN	REVERSE %
1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0

BELT OVERLOADS:

SECTION NO.	FREQUENCY	CUMUL.EXCESS LCM/HR
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0

CONVEYOR PERFORMANCE INDICATORS

SECTION NO.	MECH.AVAIL %	DEMAND %	UTILIZ %	OP.EFF %
1	100.00	100.00	87.48	100.00
2	100.00	100.00	87.48	100.00
3	100.00	100.00	87.46	100.00
4	100.00	100.00	98.27	100.00
5	100.00	100.00	95.17	100.00
AVE	100.00	100.00	91.17	100.00

FEED RATE = 600 BCM/HR

FEEDING EQUIPMENT REPORT (TOTAL) AT 16: 0

Unit No.	Current Feed- Rate(BCM/Hr)	Current Feed- Grade(%)	Cumulative Production (BCM) Hour	Shift	Day	Simul.
1	600	7.0	0	0	0	3981
2	600	7.8	0	0	0	4166

Unit No.	Current Status Code	Cumulative Status Time in min.(%) 1	2	3	4	5
1	1	398(83)	82(17)	0(0)	0(0)	0(0)
2	1	416(87)	64(13)	0(0)	0(0)	0(0)

Status Codes:
1 Operating
2 Self-delayed
3 Delayed due to Receiving Equipment
4 Idle
5 Broken down

CONVEYOR NETWORK REPORT (TOTAL) AT TIME 16: 0

SECT NO.	STAT CODE	MATL CODE	PR.RAT LCM/HR	CYCLE(NO DEL) MIN (MIN)	WORK MIN	IDLE MIN	DOWN MIN	ENERGY CONS KWH/LCM	PRODUC. LCM
1	2	1	810	30.(30.)	419	0	0	2.33	10270
2	2	1	810	25.(25.)	419	0	0	1.01	10271
3	2	1	0	29.(29.)	419	0	0	1.44	5308
4	2	1	0	25.(25.)	471	0	0	1.33	5256
5	2	1	810	24.(24.)	456	0	0	1.25	5309

CONVEYOR UTILIZATION REPORT AT TIME 16: 0

RUNNING:

SECTION NO.	LOADED MIN	LOADED %	EMPTY MIN	EMPTY %
1	395	94.1	24	5.9
2	407	97.1	12	2.9
3	384	91.6	35	8.4
4	422	89.5	49	10.5
5	430	94.3	26	5.7

DELAYS:

SECTION NO.	WAITING MIN	WAITING %	RELOCATION MIN	RELOCATION %	ROLLERS MIN	ROLLERS %	TRIPPING MIN	TRIPPING %	SWITCHOVER MIN	SWITCHOVER %	REVERSE MIN	REVERSE %
1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0

BELT OVERLOADS:

SECTION NO.	FREQUENCY	CUMUL.EXCESS LCM/HR
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0

CONVEYOR PERFORMANCE INDICATORS

SECTION NO.	MECH.AVAIL %	DEMAND %	UTILIZ %	OP.EFF %
1	100.00	100.00	87.48	100.00
2	100.00	100.00	87.48	100.00
3	100.00	100.00	87.46	100.00
4	100.00	100.00	98.27	100.00
5	100.00	100.00	95.17	100.00
AVE	100.00	100.00	91.17	100.00

FEED RATE = 700 BCM/HR

FEEDING EQUIPMENT REPORT (TOTAL) AT 16: 0

Unit No.	Current Feed- Rate(BCM/Hr)	Grade(%)	Cumulative Production (BCM) Hour	Shift	Day	Simul.
1	700	7.0	0	0	0	4642
2	700	7.8	0	0	0	4858

Unit No.	Current Status Code	Cumulative Status Time in min.(%) 1	2	3	4	5
1	1	398(83)	82(17)	0(0)	0(0)	0(0)
2	1	416(87)	64(13)	0(0)	0(0)	0(0)

Status Codes:
1 Operating
2 Self-delayed
3 Delayed due to Receiving Equipment
4 Idle
5 Broken down

CONVEYOR NETWORK REPORT (TOTAL) AT TIME 16: 0

SECT NO.	STAT CODE	MATL CODE	PR.RAT LCM/HR	CYCLE(NO DEL) MIN (MIN)	WORK MIN	IDLE MIN	DOWN MIN	ENERGY CONS KWH/LCM	PRODUC. LCM
1	2	1	945	30.(30.)	419	0	0	2.10	11982
2	2	1	945	25.(25.)	419	0	0	0.93	11982
3	2	1	0	29.(29.)	419	0	0	1.29	6194
4	2	1	0	25.(25.)	471	0	0	1.21	6134
5	2	1	945	24.(24.)	456	0	0	1.13	6195

CONVEYOR UTILIZATION REPORT AT TIME 16: 0

RUNNING:

SECTION NO.	LOADED MIN	%	EMPTY MIN	%
1	395	94.1	24	5.9
2	407	97.1	12	2.9
3	384	91.6	35	8.4
4	422	89.5	49	10.5
5	430	94.3	26	5.7

DELAYS:

SECTION NO.	WAITING MIN	WAITING %	RELOCATION MIN	RELOCATION %	ROLLERS MIN	ROLLERS %	TRIPPING MIN	TRIPPING %	SWITCHOVER MIN	SWITCHOVER %	REVERSE MIN	REVERSE %
1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0

BELT OVERLOADS:

SECTION NO.	FREQUENCY	CUMUL.EXCESS LCM/HR
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0

CONVEYOR PERFORMANCE INDICATORS

SECTION NO.	MECH.AVAIL %	DEMAND %	UTILIZ %	OP.EFF %
1	100.00	100.00	87.48	100.00
2	100.00	100.00	87.48	100.00
3	100.00	100.00	87.46	100.00
4	100.00	100.00	98.27	100.00
5	100.00	100.00	95.17	100.00
AVE	100.00	100.00	91.17	100.00

FEED RATE = 800 BCM/HR

FEEDING EQUIPMENT REPORT (TOTAL) AT 16: 0

Unit No.	Current Feed- Rate(BCM/Hr)	Grade(%)	Cumulative Production (BCM) Hour	Shift	Day	Simul.
1	800	7.0	0	0	0	5303
2	800	7.8	0	0	0	5553

Unit No.	Current Status Code	Cumulative Status Time in min.(%) 1	2	3	4	5
1	1	398(83)	82(17)	0(0)	0(0)	0(0)
2	1	416(87)	64(13)	0(0)	0(0)	0(0)

Status Codes:
1 Operating
2 Self-delayed
3 Delayed due to Receiving Equipment
4 Idle
5 Broken down

CONVEYOR NETWORK REPORT (TOTAL) AT TIME 16: 0

SECT NO.	STAT CODE	MATL CODE	PR.RAT LCM/HR	CYCLE(NO DEL) MIN (MIN)	WORK MIN	IDLE MIN	DOWN MIN	ENERGY CONS KWH/LCM	PRODUC. LCM
1	2	1	1080	30.(30.)	419	0	0	1.92	13688
2	2	1	1080	25.(25.)	419	0	0	0.87	13689
3	2	1	0	29.(29.)	419	0	0	1.18	7082
4	2	1	0	25.(25.)	471	0	0	1.12	7011
5	2	1	1080	24.(24.)	456	0	0	1.05	7081

CONVEYOR UTILIZATION REPORT AT TIME 16: 0

RUNNING:

SECTION NO.	LOADED MIN	%	EMPTY MIN	%
1	395	94.1	24	5.9
2	407	97.1	12	2.9
3	384	91.6	35	8.4
4	422	89.5	49	10.5
5	430	94.3	26	5.7

DELAYS:

SECTION NO.	WAITING MIN	WAITING %	RELOCATION MIN	RELOCATION %	ROLLERS MIN	ROLLERS %	TRIPPING MIN	TRIPPING %	SWITCHOVER MIN	SWITCHOVER %	REVERSE MIN	REVERSE %
1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0

BELT OVERLOADS:

SECTION NO.	FREQUENCY	CUMUL.EXCESS LCM/HR
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0

CONVEYOR PERFORMANCE INDICATORS

SECTION NO.	MECH.AVAIL %	DEMAND %	UTILIZ %	OP.EFF %
1	100.00	100.00	87.48	100.00
2	100.00	100.00	87.48	100.00
3	100.00	100.00	87.46	100.00
4	100.00	100.00	98.27	100.00
5	100.00	100.00	95.17	100.00
AVE	100.00	100.00	91.17	100.00

FEED RATE = 900 BCM/HR

FEEDING EQUIPMENT REPORT (TOTAL) AT 16: 0

Unit No.	Current Feed- Rate(BCM/Hr)	Grade(%)	Cumulative Production (BCM) Hour	Shift	Day	Simul.
1	900	7.0	0	0	0	5971
2	900	7.8	0	0	0	6248

Unit No.	Current Status Code	Cumulative Status Time in min.(%) 1	2	3	4	5
1	1	398(83)	82(17)	0(0)	0(0)	0(0)
2	1	416(87)	64(13)	0(0)	0(0)	0(0)

Status Codes:
1 Operating
2 Self-delayed
3 Delayed due to Receiving Equipment
4 Idle
5 Broken down

CONVEYOR NETWORK REPORT (TOTAL) AT TIME 16: 0

SECT NO.	STAT CODE	MATL CODE	PR.RAT LCM/HR	CYCLE(NO DEL) MIN (MIN)	WORK MIN	IDLE MIN	DOWN MIN	ENERGY CONS KWH/LCM	PRODUC. LCM
1	2	1	1215	30.(30.)	419	0	0	1.79	15405
2	2	1	1215	25.(25.)	419	0	0	0.82	15403
3	2	1	0	29.(29.)	419	0	0	1.10	7962
4	2	1	0	25.(25.)	471	0	0	1.05	7884
5	2	1	1215	24.(24.)	456	0	0	0.98	7965

CONVEYOR UTILIZATION REPORT AT TIME 16: 0

RUNNING:

SECTION NO.	LOADED MIN	%	EMPTY MIN	%
1	395	94.1	24	5.9
2	407	97.1	12	2.9
3	384	91.6	35	8.4
4	422	89.5	49	10.5
5	430	94.3	26	5.7

DELAYS:

SECTION NO.	WAITING MIN	WAITING %	RELOCATION MIN	RELOCATION %	ROLLERS MIN	ROLLERS %	TRIPPING MIN	TRIPPING %	SWITCHOVER MIN	SWITCHOVER %	REVERSE MIN	REVERSE %
1	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
3	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
4	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
5	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0

BELT OVERLOADS:

SECTION NO.	FREQUENCY	CUMUL.EXCESS LCM/HR
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0

CONVEYOR PERFORMANCE INDICATORS

SECTION NO.	MECH.AVAIL %	DEMAND %	UTILIZ %	OP.EFF %
1	100.00	100.00	87.48	100.00
2	100.00	100.00	87.48	100.00
3	100.00	100.00	87.46	100.00
4	100.00	100.00	98.27	100.00
5	100.00	100.00	95.17	100.00
AVE	100.00	100.00	91.17	100.00